LBT-A37CDM/D259CD/D309CD/D359CD

SERVICE MANUAL

Canadian Model

AEP Model LBT-D259CD/D309CD/D359CD

UK Model LBT-D259CD/D359CD

E Model Australian Model

These systems are composed of following models. As for the service manual, it is issued for each component model, then, please refer to it.

COMPONENT MODEL NAME FOR THESE SYSTEM

	A37CDM		D259CD		D309CD		D359CD			
	E	AUS	PX	AEP	UK	CND	AEP	G/EE/CIS	AEP	UK
Compact disc deck	HTC-D359		HTC-D259		HTC-D309		HTC-D359			
Stereo FM•AM receiver		STR-A3	7		STR-	D259	STR-D309		STR-D359	
Turntable				PS-L	X52P	_	PS-LX52P (Except for EE, CIS)			, CIS)
Speaker system	SS-D270				SS-D170	_				

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

PARTS LIST

EE : East European model CND: Canadian model G : German model AUS: Australian model

•						
Parts No.	<u>Description</u>	Remarks	Parts No.	Descript	<u>cion</u>	Remarks
1-466-982-11	COMMANDER, STANDARD (RM-S271) (D259CD) COMMANDER, STANDARD (RM-S309) (except ANTENNA, LOOP		3-756-334-11 3-756-334-41	MANUAL, I	NSTRUCTION (D359CD:UK) (NSTRUCTION (D359CD:AEP) (English,French,Spa	
	ANTENNA (AEP, G, EE, CIS) CORD (SPEAKER) (A37CDM)		3-756-334-51	MANUAL, I	NSTRUCTION (D359CD:AEP)	- /
	CORD. CONNECTION 13P		3-756-334-71	MANUAL, I	NSTRUCTION (A37CDM)	Swedish, Italian)
3-707-584-01	COVER, BATTERY (FOR RM-S271) COVER, BATTERY (FOR RM-S309)		* 4-956-900-01	CUSHION ((UPPER) (D309CD)	Spanish, Chinese)
	MANUAL, INSTRUCTION (D309CD:AEP)				MIDDLE) (D309CD)	
3-756-332-41	(English, French, Spanish, MANUAL, INSTRUCTION (D309CD: AEP, G)	:	* 4-956-907-01	INDIVIDUA	(LOWER) (D309CD) L, CARTON (D309CD:AEP, G)	
	(German, Dutch, Swed		* 4-956-908-01 * 4-956-909-01	INDIVIDUA INDIVIDUA	L, CARTON (D259CD:UK) L, CARTON (D359CD:UK)	
3-756-332-51	MANUAL, INSTRUCTION (D309CD:EE, CIS) (English, German, Polis				•	
3-756-333-11	MANUAL, INSTRUCTION (D259CD:UK) (Engli	ish) :	* 4-957-538-01	INDIVIDUA	L, CARTON (D259CD:AEP) L, CARTON (CND)	
3-756-333-31	MANUAL, INSTRUCTION (CND) (English, Free MANUAL, INSTRUCTION (D259CD:AEP)		* 4-957-634-01 * 4-957-635-01	INDIVIDUA	L, CARTON (D359CD:AEP) L, CARTON (A37CDM:AUS,PX))
3-756-333-51	(English, French, Spanish, MANUAL, INSTRUCTION (D259CD:AEP)				L, CARTON (A37CDM:E)	,
	(German, Dutch, Swedi	sh, Italian)	* 4-958-549-01	CUSHION (D259CD, D359CD, A37CDM)	

COMPACT HI-FI STEREO SYSTEM

* 4-960-227-01 INDIVIDUAL, CARTON (D309CD:EE, CIS)

93G09072-1D Printed in Japan

HTC-D209/D309

SERVICE MANUAL



AEP Model UK Model E Model Australian Model

HTC-D209 is the compact disc deck in LBT-A27CD / A27CDK / D209CD. HTC-D309 is the compact disc deck in LBT-A37CD / A37CDK / D309CD.

Photo: HTC-D209

SPECIFICATIONS

Cassette deck

Recording system Frequency response 4-track 2-channel stereo

DOLBY NR OFF

With Type II cassette (Sony UX-S) 40 Hz to 14 kHz (\pm 3 dB) With Type I cassette (Sony HF-S) 40 Hz to 13 kHz (\pm 3 dB)

W.PEAK $\pm 0.2\%$ (DIN)

Compact disc player

Laser

Laser output

Wow and flutter

Semiconducotr laser ($\lambda = 780 \text{ nm}$)

Max, 44.6 μW*

 This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical

Pick-up Block.

Frequency response Signal-to-noise ratio Dynamic range

2 Hz to 20 kHz \pm 0.5 dB More than 93 dB More than 90 dB

Harmonic distortion Channel separation Less than 0.008% (1 kHz) More than 90 dB (1 kHz)

Mass

Approx. 5.1 kg

Dimensions

Approx. $355 \times 225 \times 305$ mm (w/h/d, including projections)

CD	Model Name Using Similar M	HCD-D109	
Section	Base Unit Name		BU-5BD1
DECK	Model Name Using Similar N	HCD-H170/H170K /H700	
Section	Tape Transport Mechanism	DECK A	TCM-190RA12CL
	Туре	DECK B	TCM-190RB22CL

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol 0 are trademarks of Dolby Laboratories Licensing Corporation.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION	; INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL	: USYNLIG LASERSTRÅLING VED ABNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDS ÆTTELSE FOR STRÅLING
VARO!	: AVATTAESSA JA SUOJALUKITUS OHITETTAESSA DLET ALTTINA LASERSATEILYLLE
VARNING	LASERSTRALING NAP DENNA DEL AR OPPNAD OCH SPARREN AR URXOPPLAD
ADVARSEL	; USYNLIG LASERSTRALING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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MODEL IDENTIFICATION

Back Panel

4-955-819-01: HTC-D209 AEP, UK, Italian, Germany Mdels.

4-955-819-11: HTC-D209 E, East European, Malaysia, Singapore Models.

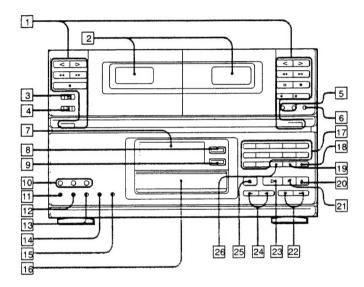
4-955-819-21: HTC-D209 Saudi Arabia, Australian Models. 4-955-819-31: HTC-D309 AEP, UK, Italian, Germany Models.

4-955-819-41: HTC-D309 E, East European, Malaysia, Singapore, CIS Models.

4-955-819-51: HTC-D309 Saudi Arabia, Australian Models.

This section is extracted from instruction manual.

SECTION 1 GENERAL



Location of Controls

Cassette Deck

- 1 Tape operation buttons
 - ◆ Leftward fast winding/AMS*
 - ►► Rightward fast winding/AMS*
 - Forward play
 - Reverse play
 - Stop
 - **≜** EJECT
 - II PAUSE (deck B only)
 - O REC MUTE (record muting) (deck B only)
 - REC (record) (deck B only)
- 2 Cassette holders
- 3 DOLBY NR (noise reduction) switch (32,
- 4 DIRECTION MODE selector (28, 32, 38,
- 5 DUBBING SPEED (HIGH/NORMAL) button (38, 40)
- 6 CD SYNCHRO button (80, 84)

Compact Disc Player

- 7 Display window
 8 EDIT/TIME FADE button (86, 88, 94)
- 9 TIME SET button (86, 94)
- 10 PLAY MODE buttons PROGRAM button (54) SHUFFLE button (50, 52) CONTINUE button (52)
- III MUSIC SCAN button (58)
- 12 A.SPACE/A.CUE (auto space/auto cue) button (48, 96)
- 13 TIME button (44)
- 14 REPEAT button (60)
- 15 FADER button (92)
- 16 Disc tray
- 17 Numeric buttons (46, 52)
- 18 CLEAR (program clear) button (56)
- 19 CHECK (program check) button (56)
- 20 (stop) button (42)
- [21] [1] (pause) button (42)
- (manual search) buttons (46)
- A MAIN (AMS*) buttons (46)

 OPEN/CLOSE button (42)
- 26 > 12 (over 12) button (46)
- * AMS is the abbreviation of Automatic Music Sensor.

SECTION 2 ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENTS

Precautions:

 Clean the following parts with a denatured-alcoholmoistened swab;

record/playback/erase head

pinch roller rubber belts capstan idler

2. Demagnetize the record/playback head with a head demagnetizer.

(Head demagnetizer do not approach for the erase head.)

- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	35 to 60g · cm (0.49 to 0.83 oz · inch)
FWD Back tension	CQ-102C	2 to 6g·cm (0.03 to 0.08 oz·inch)
REV	CQ-102RC	35 to 60g · cm (0.49 to 0.83 oz · inch)
REV Back tension	CQ-102RC	2 to 6g·cm (0.03 to 0.08 oz·inch)
FF, REW	CQ-201B	70 to 110g · cm (0.98 to 1.52 oz · inch)

2-2. ELECTRICAL ADJUSTMENTS

0 dB=0.775 V (AF)

Precautions:

CASSETTE DECK SECTION

- Demagnetize the record / playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- 2. Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- I. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF
TAPE: TYPE I

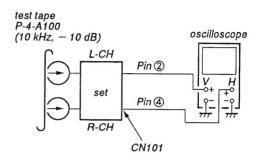
Type	Signal	Used for
P-4 A100	6.3kHz, -10dB	Azimath Adjustment
P-4 L300	315Hz, 0dB	PB Level Adjustment
WS 48B	3kHz, ÓdB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

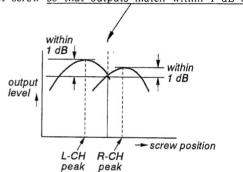
Note: Perform this adjustments for both decks.

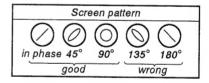
Procedure:

1. Mode: FWD playback



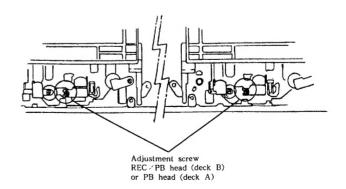
 Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.





 After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location:

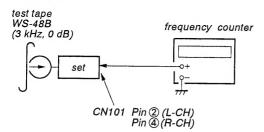


Tape Speed Adjustment.

DECK A DECK B

Mode: playback

Procedure:



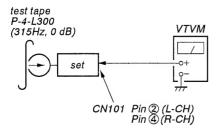
- High speed adjustment (Must be first Adjustment B deck)
 - 1. Push HIGH speed button.
 - 2. Adjust RV71 so that the frequency counter reads $6,000 \pm 30 Hz$
- NORMAL speed adjustment
 - 1. Push NORMAL speed button.
 - 2. Adjust RV72 so that the frequency counter reads $3,000 \pm 15 Hz$.

(See right for Adjusting Parts Location)

Frequency difference between deck A and deck B the beginning of the tape should be within 1%.

Playback Level Adjustment | DECK A Procedure:

DECK B



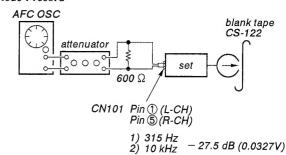
Mode: FWD playback DECK-A side RV11 (L-CH), RV21 (R-CH) DECK-B side RV11 (L-CH), RV21 (R-CH) so that the limits below are satisfied

Adjustable limits:

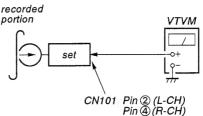
CN101 level: -7.7 ± 0.5 dB (0.301 -0.338) level difference between the channels: within 1.0dB (See right for Adjusting Parts Location)

Record BIAS Current Adjustment DECK B Procedure:

1. Mode: record



Mode: Playback



Playback the signal recorder in step 1. Confirm that the 10kHz playback output is $0\pm0.5dB$ relative to the 315Hz output, If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

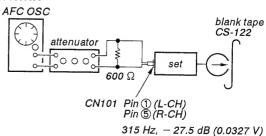
(See right for Adjusting Parts Location)

Record Level Adjustment | DECK B Setting:

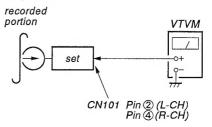
TAPE: TYPE I

Procedure:

1. Mode: record



2. Mode: playback

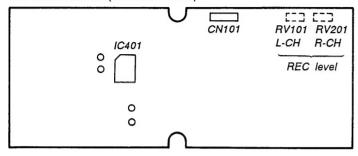


3. Playback the signal recorded in step 1. Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the step 1-3.

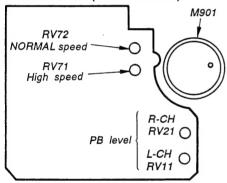
Adjustable limits: $-27.5 \pm 0.5 \text{ dB} (0.0309 - 0.0346)$ (See right for Adjusting Parts Location)

• Adjusting Parts Location

TC MAIN BOARD (Conductor Side)



AUDIO BOARD (Conductor Side)

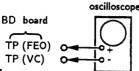


CD SECTION

Note:

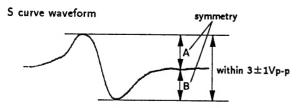
- CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
- 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- 3. Use the oscilloscope with more than $10M\Omega$ impedance.
- 4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure:

- Connect oscilloscope to test point TP (FEO) on BD board.
- 2. Connect between test point TP (FES) and TP (VC) by lead wire.
- Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
- Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

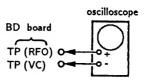


5. After check, remove the lead wire connected in step 2.

Note: • Try to mesure several times to make sure that the ratio of A: B or B: A is more than 10:7.

• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

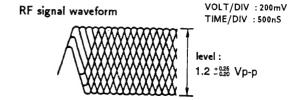


Procedure:

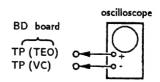
- Connect oscilloscope to test point TP (RFO) on BD board.
- 2. Turn Power switch on.
- 3. Put disc (YEDS-18) in and playback.
- 4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note:

Clear RF signal waveform means that the shape "\$\langle\$" can be clearly distinguished at the center of the waveform.



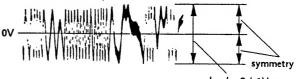
E-F Balance Check



Procedure:

- Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
- 2. Connect oscilloscope to test point TP (TEO) on BD board.
- 3. Turn Power switch on.
- 4. Put disc (YEDS-18) in and playback.
- Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.



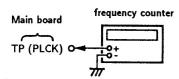


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure:

1. Connect frequency counter to test point (PLCK) with lead wire.



- 2. Turn Power switch on.
- 3. Confirm that reading on frequency counter is 4. 3218MHz.

Focus/Tracking Gain

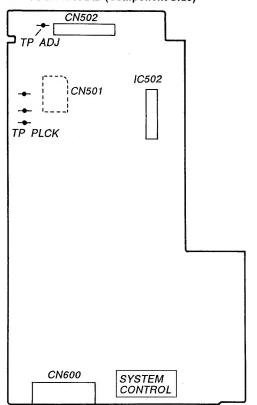
This gain has a margin, so even if it is slightly off. There is no problem.

Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

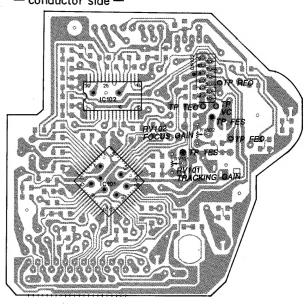
Adjustment Location;

CD MAIN BOARD (Component Side)



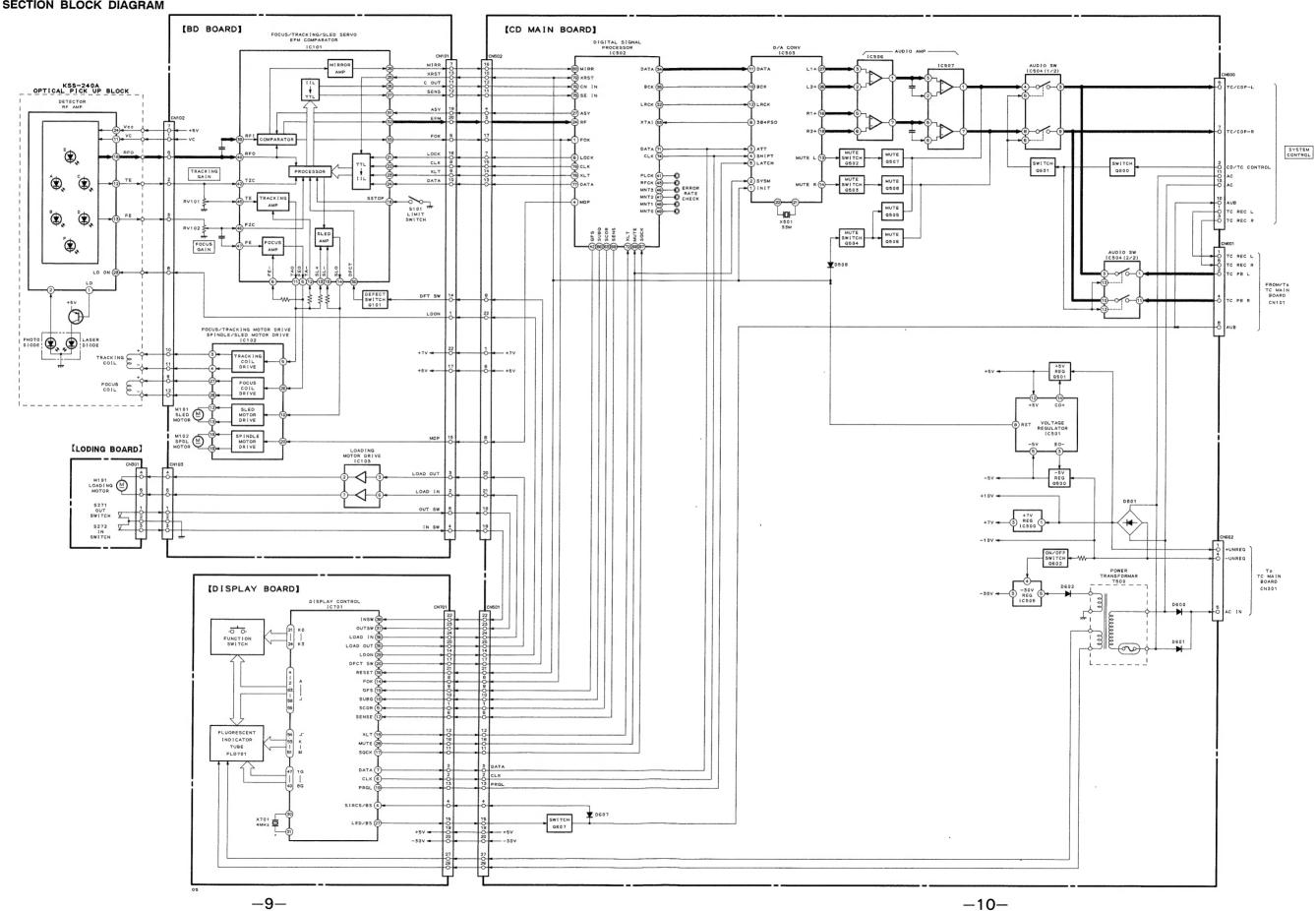
Adjustment Locations: [BD board]

- conductor side -

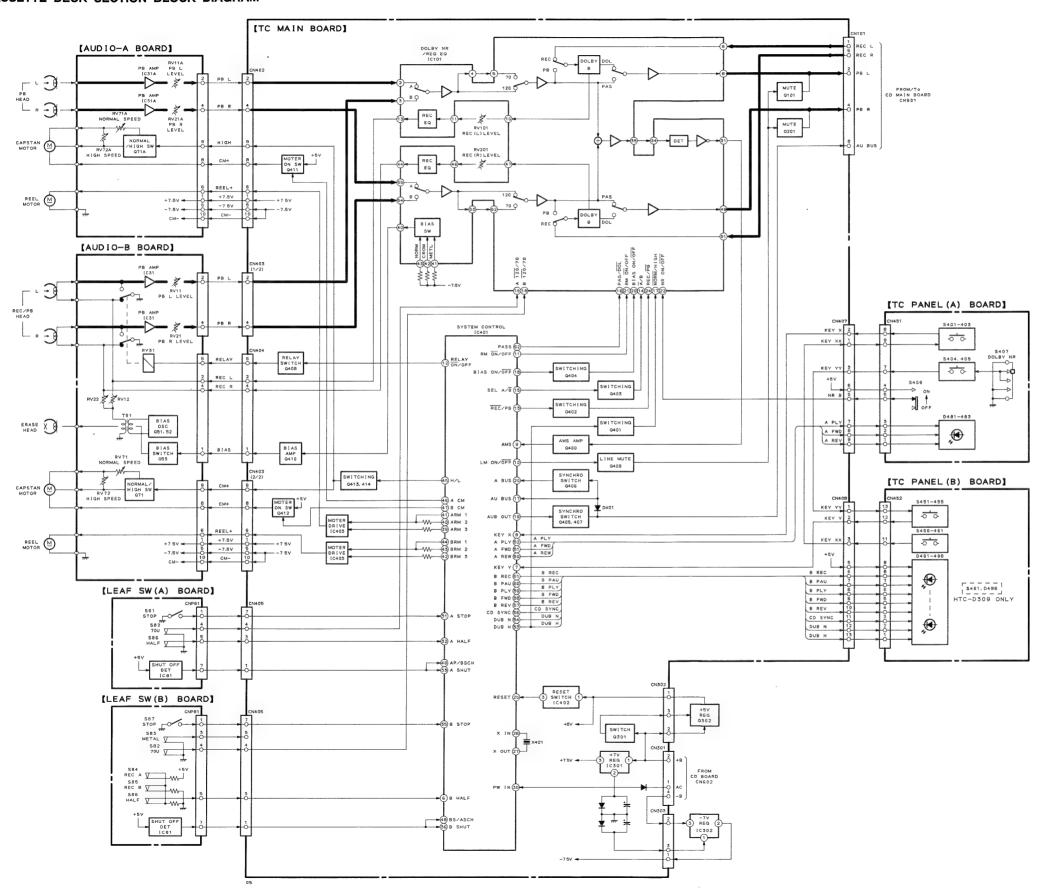


SECTION 3 DIAGRAMS

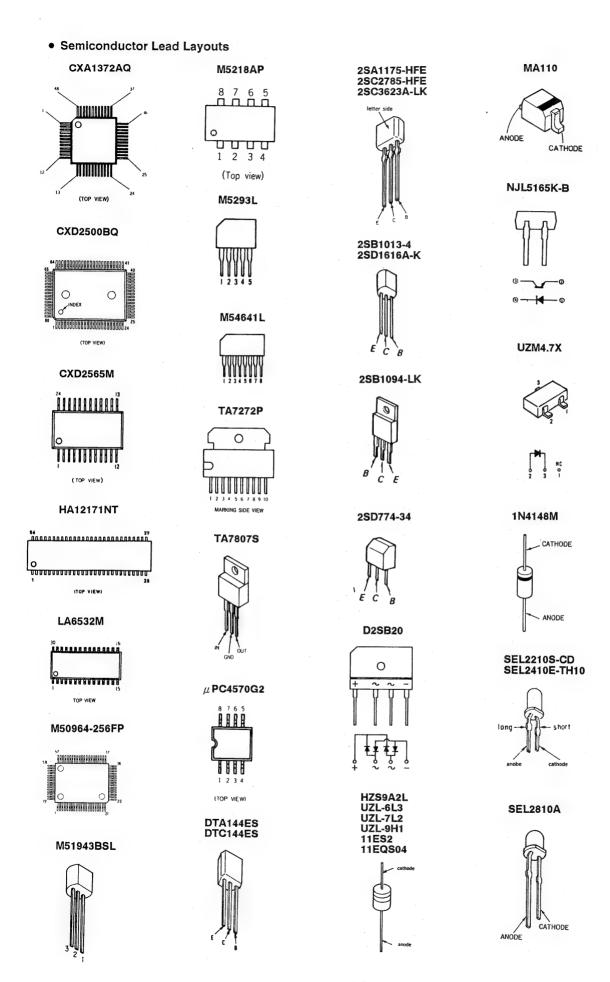
3-1. CD SECTION BLOCK DIAGRAM



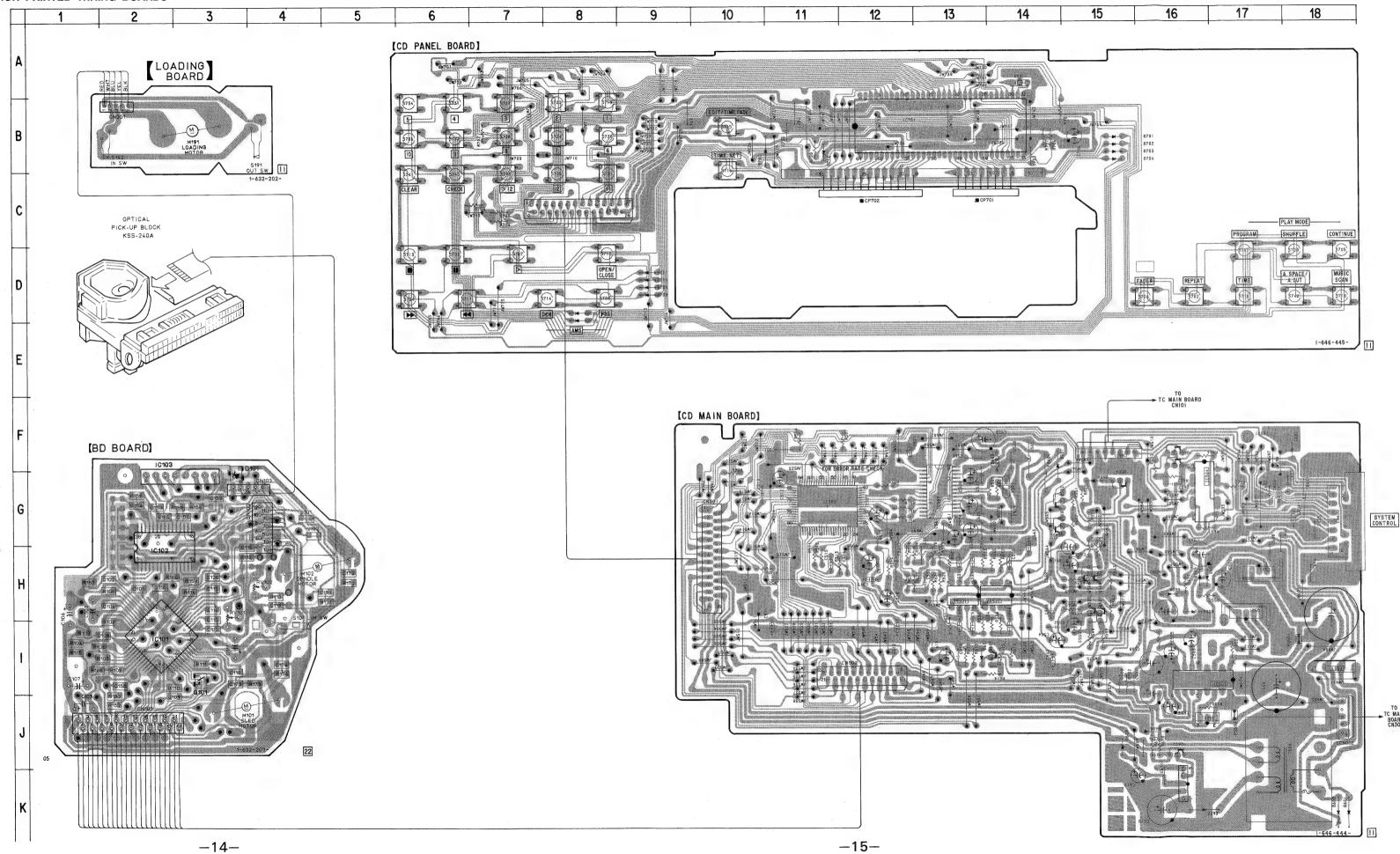
3-2. CASSETTE DECK SECTION BLOCK DIAGRAM



HTC-D209/D309

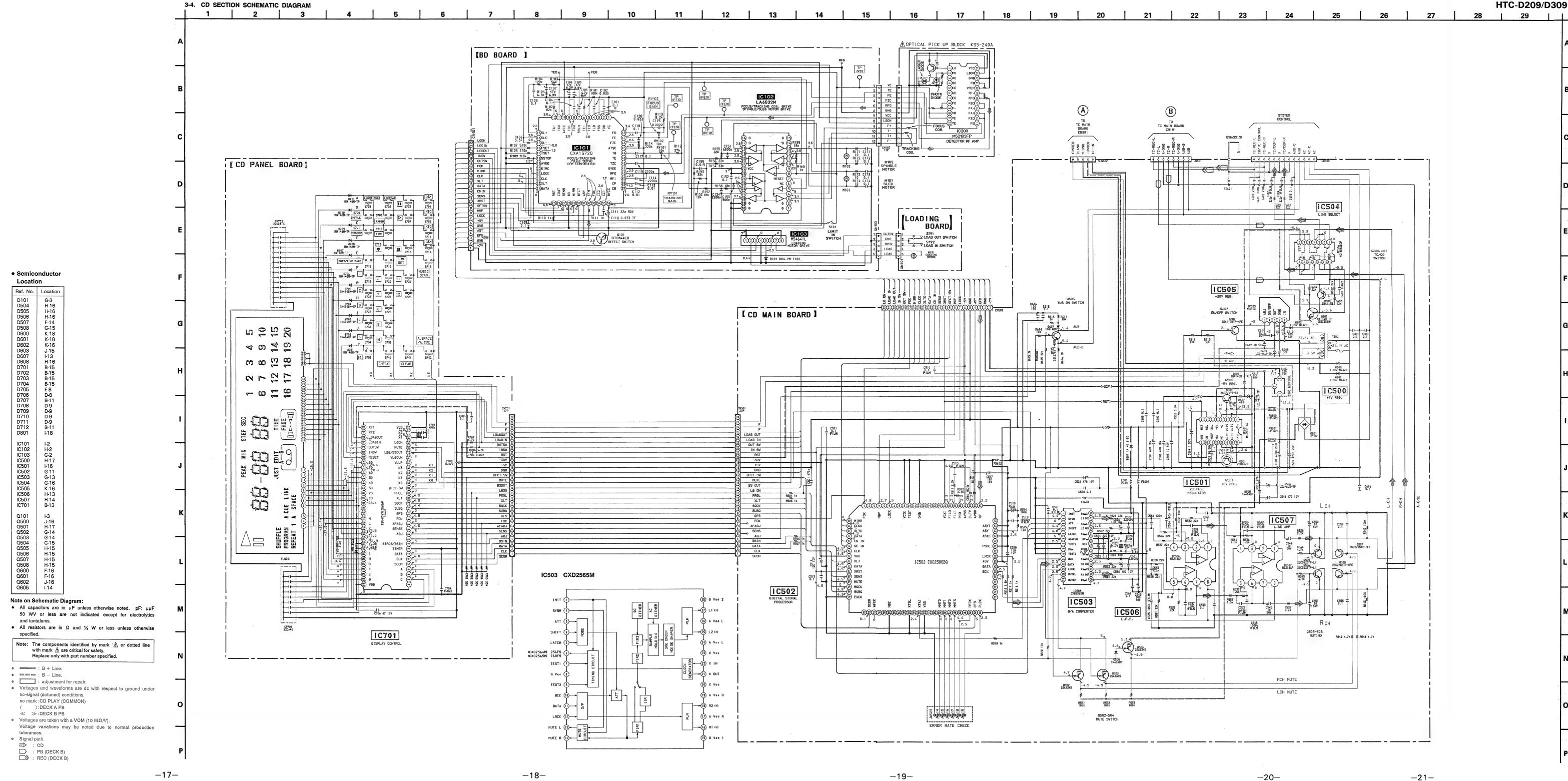


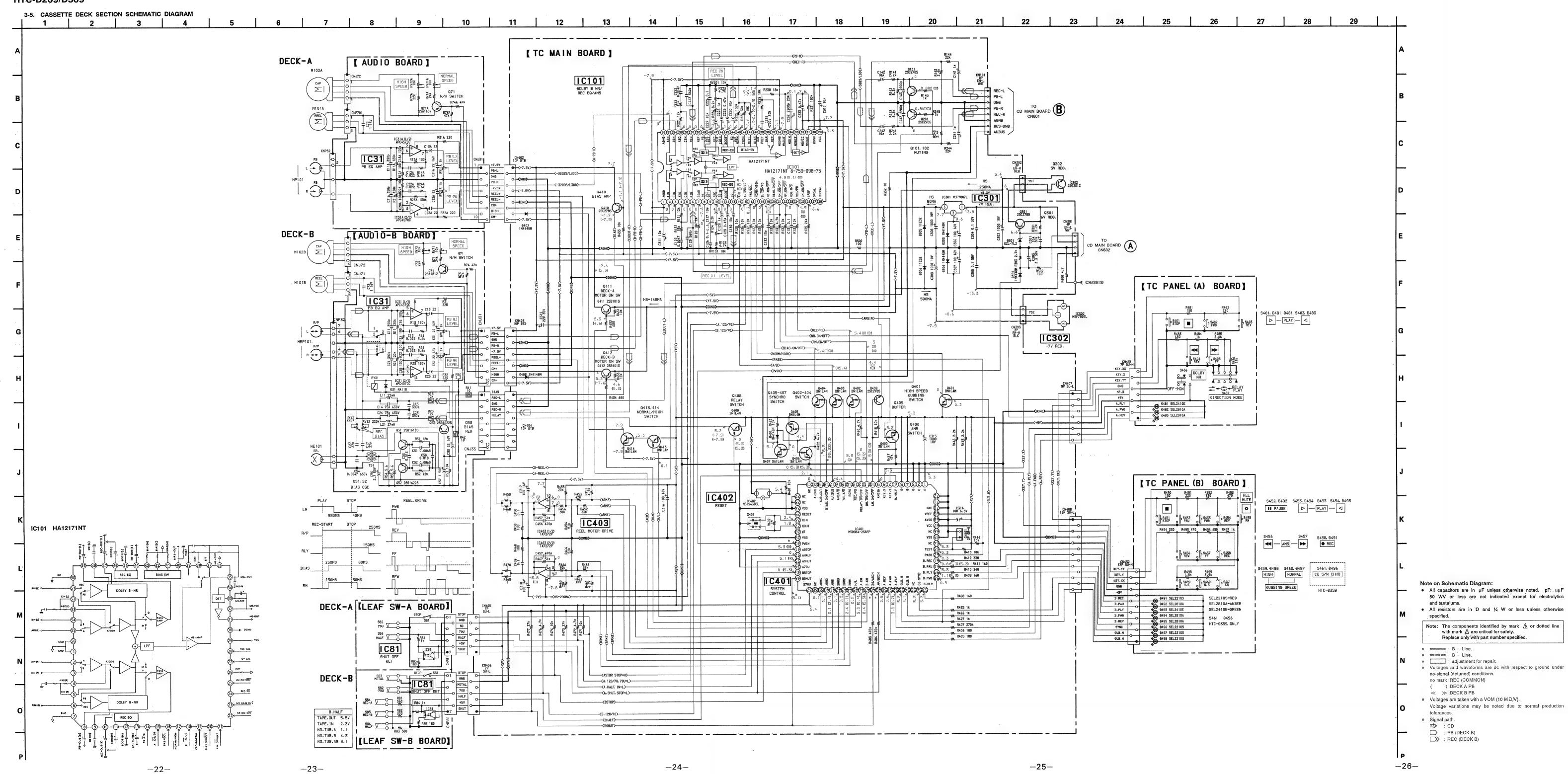
3-3. CD SECTION PRINTED WIRING BOARDS



- Note on Printed Wiring Board:

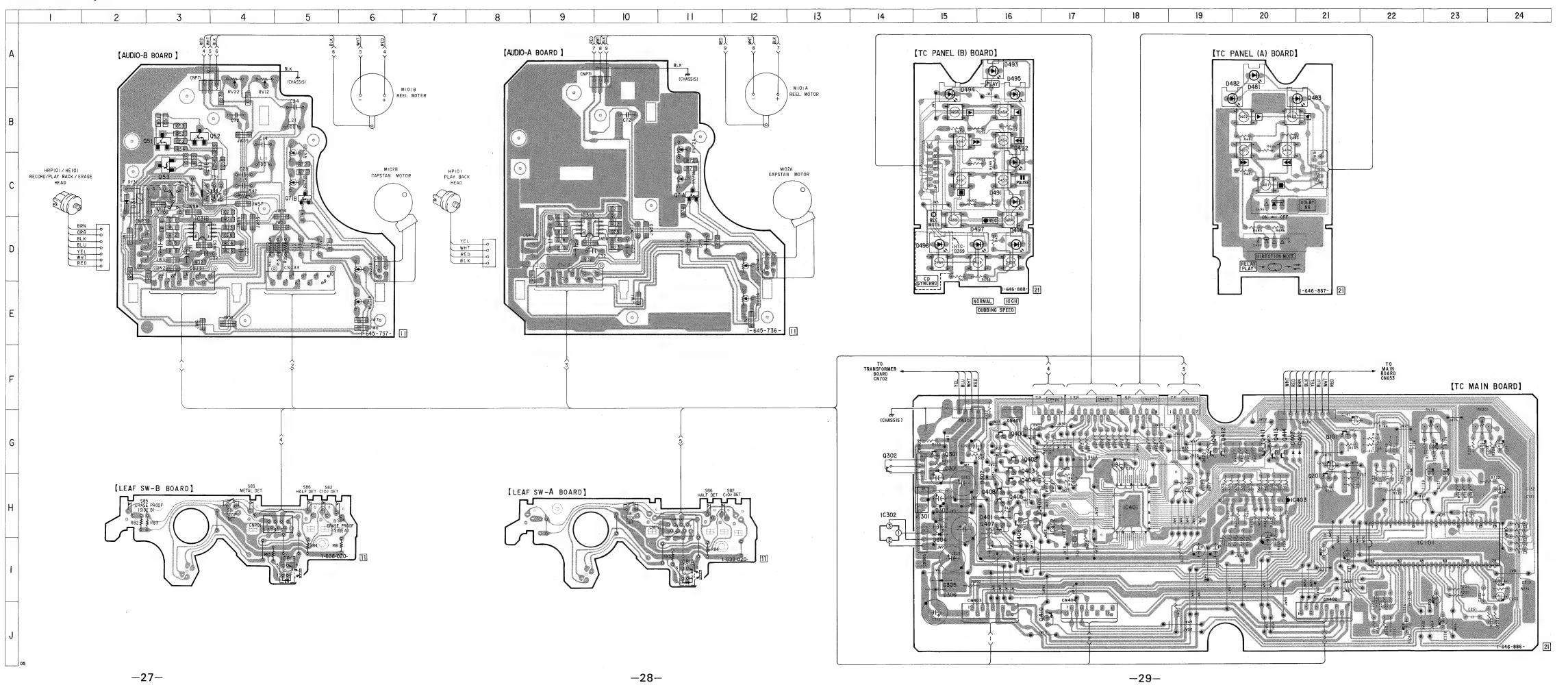
 o------: parts extracted from the component side.
- Pattern from the side which enables seeing.
- Pattern of the rear side.





3-6. CASSETTE DECK SECTION PRINTED WIRING BOARDS

See page 13 for Semiconductor Lead Layouts.



Semiconductor Location

Location						
Ref. No.	Location					
D31 D301 D302 D303 D304 D305 D306 D401 D402 D403 D481 D482 D483 D491 D492 D493 D494 D495 D496 D497 D498	C-2 G-15 H-16 H-15 I-15 I-15 I-16 G-21 G-20 A-20 B-21 C-16 A-16 B-15 D-16 D-16					
IC31A IC31B IC101 IC301 IC302 IC401 IC402 IC403	D-9 D-3 I-22 H-15 H-14 H-18 H-17 H-20					
Q51 Q52 Q53 Q71A Q71B Q101 Q201 Q301 Q302 Q400 Q401 Q402 Q403 Q404 Q405 Q405 Q406 Q407 Q408 Q409 Q410 Q411 Q412 Q413 Q414	B-3 B-3 C-3 C-11 C-5 G-14 G-15 G-16 G-16 G-16 H-16 H-16 H-16 H-16 H-17 G-19 G-20 G-20					

Note on Printed Wiring Board:

• o----: parts extracted from the component side.

SECTION 4 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts KNOB, BALANCE (WHITE) . . . (RED)

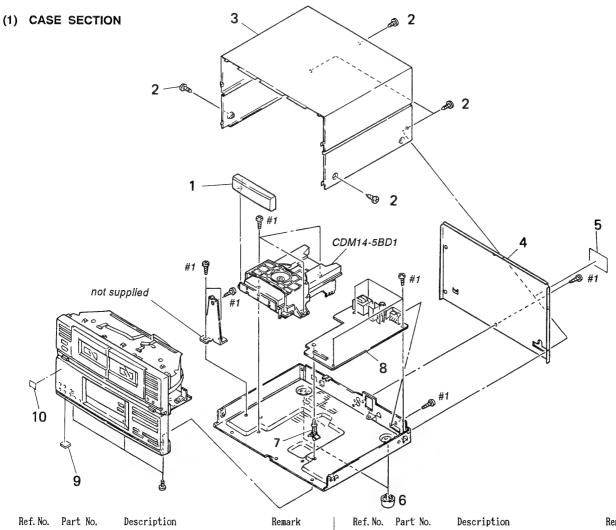
Parts Color Cabinet's Color

Abbreviations

Australian Model IT: Italian Model MY: Malaysia Model East European Model Germany Model AUS: Australian Model EA: EE: G:

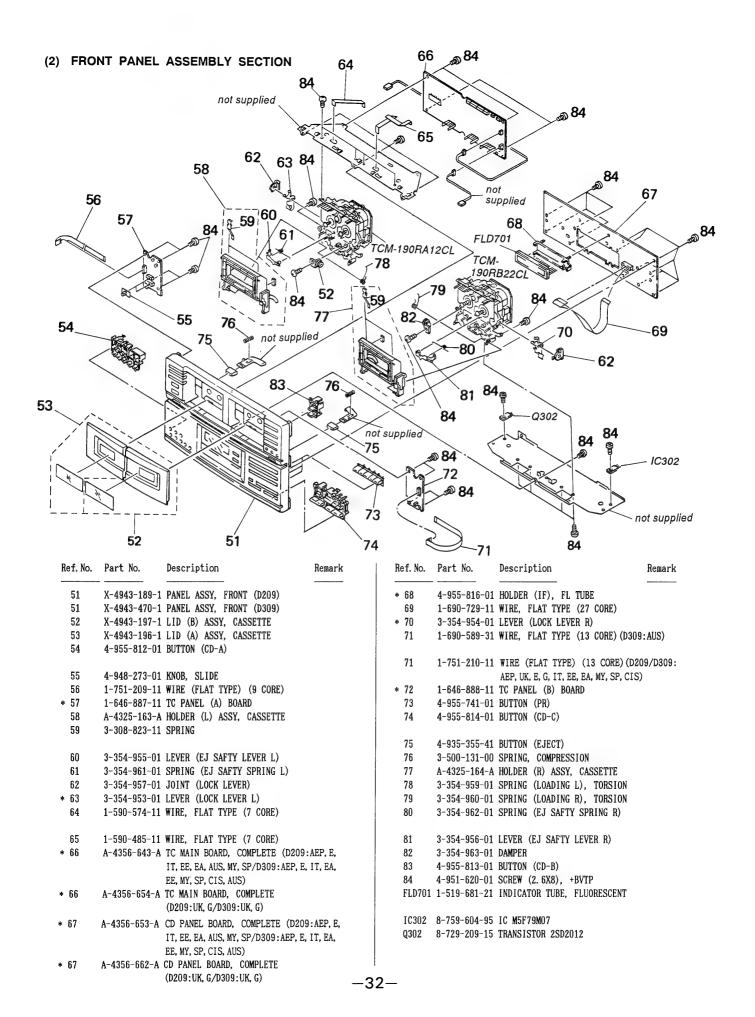
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark $\underline{\mathbb{A}}$ or dotted line with mark $\underline{\mathbb{A}}$ are critical for safety. Replace only with part number specified.

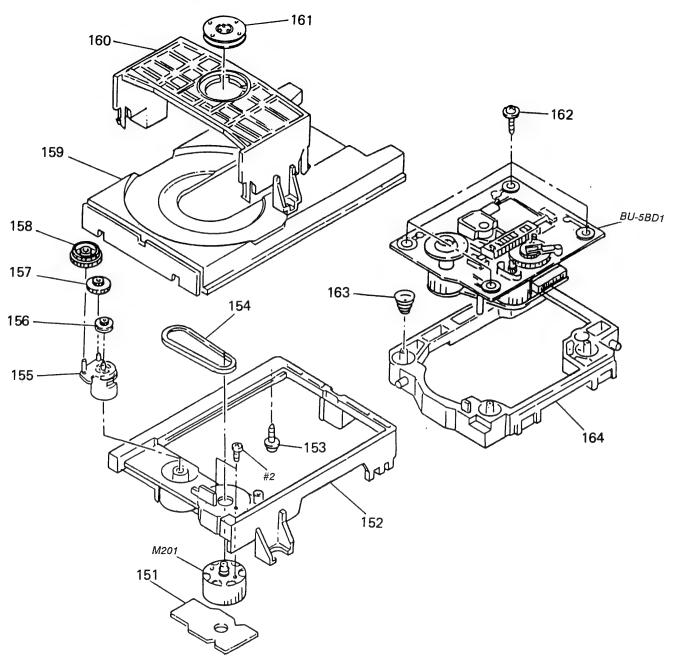


	1 41 0 1101	202011P 01011	TOMAT II
1 2 2		SCREW (CASE	ING 3 TP2) (D209:AUS/D309:UK, AUS) (M3X8) (D209:AEP, UK, E, G, IT,
			/D309:AEP, E, IT, G, EA, EE, MY,
* 3	4-955-759-31	CASE	
* 4	4-955-819-01	PANEL, BACK	(D209: AEP, UK, G, IT)
* 4	4-955-819-11	PANEL, BACK	(D209:E, EE, MY, SP)
* 4	4-955-819-21	PANEL, BACK	(D209:EA, AUS)
* 4	4-955-819-31	PANEL, BACK	(D309: AEP, UK, G, IT)
* 4	4-955-819-41	PANEL, BACK	(D309:E, EE, MY, SP, CIS)
* 4	4-955-819-51	PANEL, BACK	(D309: EA, AUS)

Re	ef. No.	Part No.	Description Rem	ark
*	5	4-941-548-01	LABEL, CLASS 1	
	6	X-4941-228-1	FOOT ASSY	
	7	4-943-687-01	HOLDER, PC BOARD	
*	8	A-4356-652-A	CD MAIN BOARD, COMPLETE (D209:AEP, IT, EE, EA, AUS, MY, SP/D309:AEP, E, IT, E EE, MY, SP, CIS, AUS)	
*	8	A-4356-661-A	CD MAIN BOARD, COMPLETE (D209:UK, G/D309:UK, G)	
	9	4-948-236-01	CUSHION (107)	
*	10	3-703-713-41	STICKER, SONY SYMBOL (10) (D209:AUS/D309:UK, AUS)	

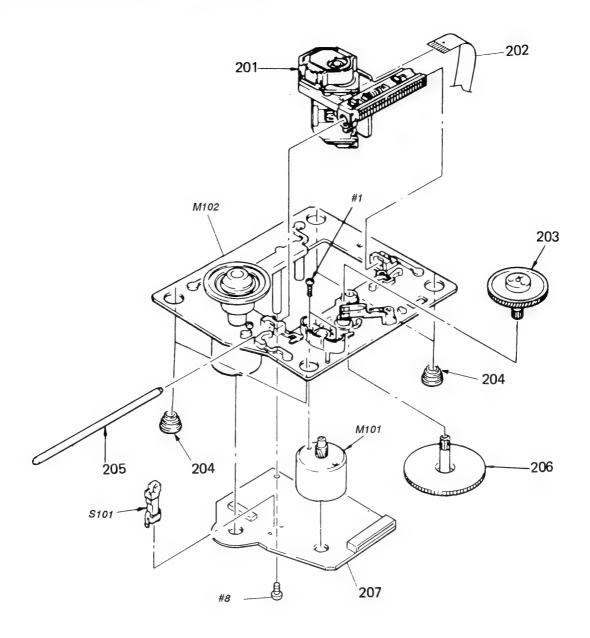


(3) CD MECHANISM SECTION (CDM14-5BD1)



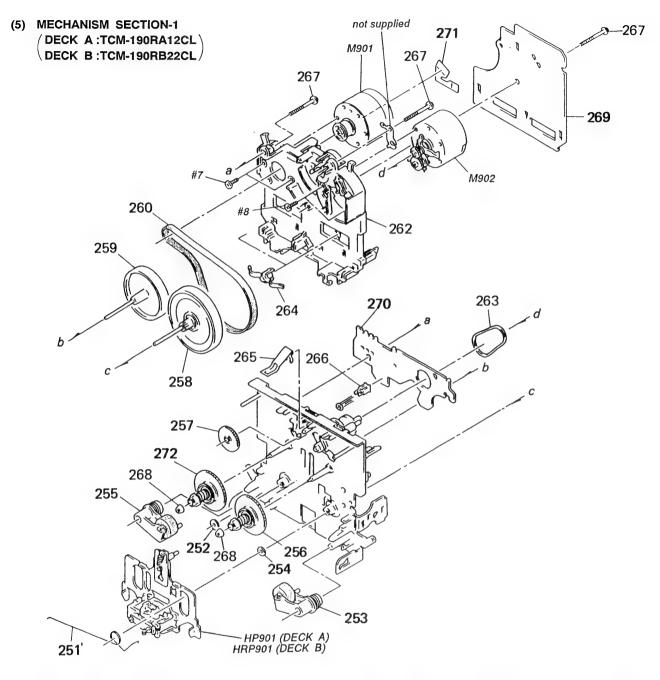
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 151 152	1-632-202-11 4-933-111-01	LOADING BOARD		159 160	4-933-112-01 4-933-110-01	·	
* 153 154	4-917-583-21 4-927-649-01	BRACKET, YOKE BELT		* 161 162	1-452-538-11 4-933-134-01	MAGNET SCREW (+PTPWH M2.6X6)	
155 156	4-933-109-01 4-927-651-01				4-917-541-01 4-933-129-01	.,	
157 158	4-927-628-01 4-933-107-01	GEAR (C)				MOTOR (L) ASSY	

(4) OPTICAL PICK-UP BLOCK ASSEMBLY (BU-5BD1)



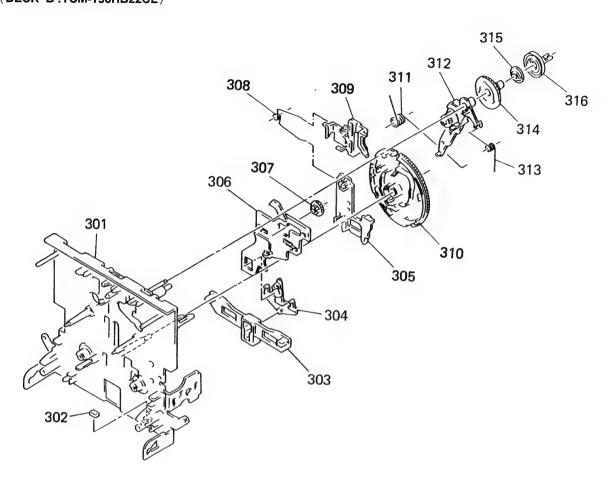
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
 <u> </u>	8-848-144-11	DEVICE, OPTICAL KSS-240A		206	4-917-564-01	GEAR (P), FLATNESS	
202	1-575-001-11	WIRE, FLAT TYPE (12 CORE)		* 207	A-4617-371-A	BD BOARD, COMPLETE	
203	4-917-567-01	GEAR (M)		S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	
204	4-933-126-01	INSULATOR (A)	1	M101	X-4917-504-1	MOTOR ASSY (SLED)	
205	4-917-565-01	SHAFT, SLED		M102	X-4917-523-3	BASE (OUTSERT) ASSY (SPINDLE MO	OTOR)

Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.



Ref. No.	Part No.	Description	Remark	Ref. N	o. Part No.	Description	Remark
251	3-359-455-01	SPRING, TORSION		265	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF	
252	3-356-714-01	WASHER		266	3-343-419-01	HOLDER (S SENSOR A)	
253	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY	1	267	3-359-414-01	SCREW (+PTPWH 2X23)	
254	3-356-713-01	WASHER		268	3-362-308-01	CAP (REEL)	
255	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY					
				* 269	A-2006-609-A	AUDIO BOARD, COMPLETE (DECK A)	
256	X-3359-404-1	TABLE ASSY, REEL		* 269	A-2006-610-A	AUDIO BOARD, COMPLETE (DECK B)	
257	3-359-424-01	GEAR (REV GEAR)		* 270	1-638-020-11	LEAF SW BOARD	
258	X-3359-406-1	FLYWHEEL (FWD) ASSY		271	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
259	X-3359-410-1	FLYWHEEL (REV) ASSY		272	X-3362-078-1	TABLE ASSY (B), REEL	
260	3-359-417-01	BELT (FLAT), CAPSTAN					
				HP9	01 A-2003-838-A	DECK ASSY, HEAD (DECK A)	
* 262	3-359-436-01	BASE (THRUST RETAINER), FITTING		HRP	E901A-2004-190-A	DECK ASSY, HEAD (DECK B)	
263	3-359-466-01	BELT (FR), SQUARE		M90	1 X-3359-417-1	MOTOR ASSY (CAPSTAN)	
264	3-575-321-00	RETAINER, THRUST, CAPSTAN		M90	2 X-3363-501-1	MOTOR ASSY (REEL)	

(6) MECHANISM SECTION-2 (DECK A:TCM-190RA12CL) DECK B:TCM-190RB22CL)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	V 0050 415 1	OHLOGIO LOGY MEGHANIGAL		000	0.050.400.04	GLIDED (DDAVE DLAME)	
301	X-3359-415-1	CHASSIS ASSY, MECHANICAL		309	3-359-429-01	SLIDER (BRAKE PLATE)	
302	3-359-469-01	SPACER		310	3-359-420-01	GEAR (CAM GEAR)	
* 303	3-359-425-01	SLIDER (REVERSE SLIDER)		311	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	
304	3-359-426-01	LEVER (REVERSE LEVER)		312	X-3359-405-1	LEVER (FR ARM) ASSY	
* 305	3-359-427-01	SLIDER (LEVERSE SLIDER)		313	3-359-453-01	SPRING (FR ARM), TORSION	
* 306	2 250 415 01	SLIDER (TRIGGER SLIDER)		214	2 250 410 01	CEAR (ER CEAR)	
				314		GEAR (FR GEAR)	
307	3-359-448-01	GEAR (TRIGGER)		315	3-359-421-01	CLUTCH (REEL DISK)	
308	3-359-454-01	SPRING, TORSION		316	3-359-418-01	PULLEY (FR PULLEY)	

SECTION 5 **ELECTRICAL PARTS LIST**

AUDIO-A

AUDIO-B

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor. F:nonflammable

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

In each case, $u:\mu$, for example: uA ..: μA.. uPA..: μPA.. $uPB...: \mu PB... uPC...: \mu PC... uPD...: \mu PD...$

 CAPACITORS uF: μF COILS

When indicating parts by reference number, please include the board.

> IT: Italian Model MY: Malaysia Model SP: Singapore Model

иН: ДН Abbreviations

AUS: Australian Model
EA: Saudi Arabia Model
EE: East European Model
G: Germany Model

The components identified by mark A or dotted line with mark. A are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

D 4 W				G.		y iviouei
Ref. No.	Part No.	Description ——————		F	lemark	Ref. No.
*	A-2006-623-A	AUDIO-A BOARD,				
		< CAPACITOR >				Q71
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C12	1-136-157-00	FILM	0. 022uF	5%	50V	R11
C13	1-124-234-00	ELECT	22uF	20%	16V	R12
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	R13
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	R14
						R21
C22	1-136-157-00	FILM	0. 022uF	5%	50V	
C23	1-124-234-00		22uF	20%	16V	R22
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	R23
C31	1-124-234-00	ELECT	22uF	20%		R24
C32	1-124-234-00	ELECT	22uF	20%	16V	R31
						R32
C72	1-124-499-11	ELECT, NONPOLA	R 1uF	20%	50V	
						R71
		< JACK >				R72
						R73
		CONNECTOR, BOAL		RD		R74
* CNJ72	1-580-411-11	SOCKET, CONNECT	TOR 4P			
		< connector >				
aunaa						RV11
		PIN, CONNECTOR				RV21
* CNP71	1-564-719-11	PIN, CONNECTOR	(SMALL TY	(PE) 3P		RV71
						RV72
		< IC >				******
IC31	8-759-106-02	IC uPC4570G2				*
		< JUMPER RESIST	ror >			
	1-216-295-00		0 5%	1/10W	I	
	1-216-296-00		0 5%	1/8W		C11
	1-216-296-00		0 5%	1/8W		C12
	1-216-296-00		0 5%	1/8W		C13
JW54	1-216-296-00	METAL CHIP	0 5%	1/8W		C14
						C15
						615

Ref. No.	Part No.	Description			Re	mark
		< TRANSISTOR	>			
Q71	8-729-216-2	2 TRANSISTOR 2S	A1162-G			
		< RESISTOR >				
R11	1-216-099-0	O METAL CHIP	120K	5%	1/10W	
R12	1-216-025-0	O METAL CHIP	100	5%	1/10W	
R13	1-216-100-0	O METAL GLAZE	130K	5%	1/10W	
R14	1-216-067-0	O METAL CHIP	5. 6K	5%	1/10W	
R21	1-216-099-0	O METAL CHIP	120K	5%	1/10W	
R22	1-216-025-0	O METAL CHIP	100	5%	1/10W	
R23	1-216-100-0	O METAL GLAZE	130K	5%	1/10W	
R24	1-216-067-0	O METAL CHIP	5. 6K	5%	1/10W	
R31	1-216-033-0	O METAL CHIP	220	5%	1/10W	
R32	1-216-033-0	O METAL CHIP	220	5%	1/10W	
R71	1-216-082-0	D METAL GLAZE	24K	5%	1/10W	
R72	1-216-081-0	O METAL CHIP	22K	5%	1/10W	
R73	1-216-089-0	D METAL CHIP	47K	5%	1/10W	
R74	1-216-089-0	METAL CHIP	47K	5%	1/10W	
		< VARIABLE RES	SISTOR >			
RV11	1-238-012-1	L RES, ADJ, CARE	ON 1K			
RV21	1-238-012-11	I RES, ADJ, CARE	ON 1K			
RV71	1-238-016-11	l RES, ADJ, CARE	ON 10K			
RV72	1-238-016-11	RES, ADJ, CARE	ON 10K			
******	******	******	******	****	*****	****
	A-2006-624-A	A AUDIO-B BOARD,				
		******	*****	k ak		
		< CAPACITOR >				
		CERAMIC CHIP	390PF		5%	50V
C11	1-163-131-00	ODICALIO OILL		n	=	EOU
C11 C12	1-163-131-00 1-136-157-00		0. 022t	ır	5%	50V
		FILM	0. 022u 22uF	ıř	5% 20%	16V
C12	1-136-157-00	FILM ELECT		ıř		

AUDIO-B

Ref. No.	Part No.	Description		Ren	nark	Ref. No.	Part No.	Description			Remark
C17	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	JW56	1-216-296-00	METAL CHIP	0	5%	1/8₩
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	JW57	1-216-296-00	METAL CHIP	0	5%	1/8W
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	JW58	1-216-296-00	METAL CHIP	0	5%	1/8W
C22	1-136-157-00	FILM	0. 022uF	5%	50V	JW59	1-216-296-00	METAL CHIP	0	5%	1/8W
C23	1-124-234-00		22uF	20%	16V	JW60	1-216-296-00	METAL CHIP	0	5%	1/8W
C24	1-136-273-91	FILM	75PF	5%	630V	JW61	1-216-296-00	METAL CHIP	0	5%	1/8W
C25	1-164-080-11	CERAMIC	390PF	10%	50V	JW62	1-216-296-00	METAL CHIP	0	5%	1/8W
C27	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	JW63	1-216-296-00	METAL CHIP	0	5%	1/8W
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V						
C31	1-124-234-00	ELECT	22uF	20%	16V			< COIF >			
C32	1-124-234-00	ELECT	22uF	20%	16V	L11	1-410-780-11	INDUCTOR 27ml	I		
C33	1-124-234-00	ELECT	22uF	20%	16V	L21	1-410-780-11	INDUCTOR 27ml	ſ		
C51		CERAMIC CHIP	0. 0068uF	10%	50V	-					
C52		CERAMIC CHIP	0. 0068uF	10%	50V			< TRANSISTOR	>		
C53		CERAMIC CHIP	0. 012uF	10%	50V						
						Q51	8-729-111-29	TRANSISTOR 25	D1616A-F	(
C54	1-136-559-11	FILM	0.0047uF	5%	630V	Q52		TRANSISTOR 25			
C56		CERAMIC CHIP	2. 2uF		16V	Q53		TRANSISTOR 25			
C57	1-164-346-11	CERAMIC CHIP	1uF		16V	Q71	8-729-216-22	TRANSISTOR 25	SA1162-G		
C58	1-163-024-00	CERAMIC CHIP	0. 018uF	10%	50V						
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V			< RESISTOR $>$			
		< JACK >				R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
						R12	1-216-025-00	METAL CHIP	100	5%	1/10W
* CNJ31	1-580-782-11	CONNECTOR, BOAR	D TO BOARD)		R13	1-216-100-00		130K	5%	1/10W
* CNJ33	1-580-782-11	CONNECTOR, BOAR	D TO BOARD)		R14	1-216-067-00	METAL CHIP	5. 6K	5%	1/10W
* CNJ72	1-580-411-11	SOCKET, CONNECT	OR 4P			R15	1-249-430-11	CARBON	12K	5%	1/4W
		< CONNECTOR >				R21	1-216-099-00	METAL CHIP	120K	5%	1/10₩
						R22	1-216-025-00	METAL CHIP	100	5%	1/10W
* CNP32	1-580-781-11	PIN, CONNECTOR	(PC BOARD)	7P		R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
* CNP71	1-564-719-11	PIN, CONNECTOR	(SMALL TYP	E) 3P		R24	1-216-067-00	METAL CHIP	5. 6K	5%	1/10W
		< DIODE >				R25	1-249-430-11	CARBON	12K	5%	1/4W
		V DIODE /				R31	1-216-033-00	METAL CHIP	220	5%	1/10W
D31	8-719-404-46	DIODE MA110				R32	1-216-033-00		220	5%	1/10W
201	0 710 101 10	DIODE METETO				R41	1-249-393-11		10	5%	1/4W F
		< IC >				R42	1-249-393-11		10	5%	1/4W F
		· • • • • • • • • • • • • • • • • • • •				R51	1-216-075-00		12K	5%	1/10W
IC31	8-759-106-02	IC uPC4570G2							-		_,
						R52	1-216-075-00	METAL CHIP	12K	5%	1/10W
		< JUMPER RESIST	OR >			R53	1-216-073-00	METAL CHIP	10K	5%	1/10W
						R54	1-216-309-00	METAL CHIP	5. 6	5%	1/10W
JW1	1-216-296-00	METAL CHIP	0 5%	1/8W		R55	1-216-309-00	METAL CHIP	5. 6	5%	1/10W
JW2	1-216-295-00	METAL CHIP	0 5%	1/10W		R56	1-216-298-00	METAL CHIP	2. 2	5%	1/10W
JW3	1-216-295-00	METAL CHIP	0 5%	1/10W							
JW4	1-216-295-00	METAL CHIP	0 5%	1/10W		R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
JW6	1-216-295-00	METAL CHIP	0 5%	1/10W		R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
						R73	1-216-089-00	METAL CHIP	47K	5%	1/10₩
JW7	1-216-295-00		0 5%	1/10W		R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
JW52	1-216-296-00	METAL CHIP	0 5%	1/8W							
JW53	1-216-296-00	METAL CHIP	0 5%	1/8W				< VARIABLE R	ESISTOR 3	>	
JW54	1-216-296-00	METAL CHIP	0 5%	1/8W							
JW55	1-216-296-00	METAL CHIP	0 5%	1/8W		RV11	1-238-012-11	RES, ADJ, CA	RBON 1K		
						RV12	1-238-551-11	RES, ADJ, CA	RBON 2201	K	
							1-238-012-11				

AUDIO-B BD

DU	

Ref. No.	Part No.	Description		Ren	ıark	Ref. No.	Part No.	Description			Remark
RV22		RES, ADJ, CARBO						< DIODE >			
RV71 RV72		RES, ADJ, CARBO RES, ADJ, CARBO				D101	8-719-021-25	DIODE UZM4.7X			
		< RELAY >						< IC >			
RY31	1-515-726-11	RELAY					8-752-058-77 8-759-822-36	IC CXA1372AQ			
		< TRANSFORMER >					8-759-633-65				
T51		COIL, BIAS OSCI		*****	***			< JACK >			
	A-4617-161-A	BD BOARD, COMPL				J101 J102	1-216-295-00 1-216-295-00		0 0	5% 5%	1/10₩ 1/10₩
		*****	***					< MOTOR >			
		< CAPACITOR >				M101	X-4917-504-1	MOTOR ASSY (SL	ED)		
C101 C102	1-163-989-11	CERAMIC CHIP	0. 1uF 0. 033uF	10%	25V 25V			< TRANSISTOR >			
C103 C104		CERAMIC CHIP	4. 7uF 0. 1uF	20%	50V 25V	Q101	8-729-901-01	TRANSISTOR DTC	44EK		
C105	1-126-154-11		47uF	20%	6. 3V			< RESISTOR >			
C106	1-126-154-11		47uF	20%	6. 3V	D101	1-216-097-00	METAL CUID	100K	E0/	1/10W
C107	1-126-154-11		47uF	20%	6. 3V	R101 R102	1-216-097-00		82K	5%	1/10W
C108		CERAMIC CHIP	0. 1uF		25V	R102	1-216-093-00		56K	5%	1/10W
C109	1-163-038-00		0. 1uF	1.00	25V	R103	1-216-091-00		120K		1/10W
C110	1-103-808-11	CERAMIC CHIP	0. 033uF	10%	25V	R104	1-216-069-00		6. 8K		1/10W
C111	1-131-367-00	TANTALUM	22uF	10%	20V		1 210 000 00		0. 0	0,0	1, 10
C112		CERAMIC CHIP	0. 01uF		50V	R106	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
C113		CERAMIC CHIP	0. 01uF		50V	R107	1-216-114-00		510K		1/10W
C114		CERAMIC CHIP	0. 0022uF	10%	100V	R108	1-216-105-00		220K		1/10W
C115		CERAMIC CHIP	0. 0022uF	10%	100V	R109	1-216-061-00		3. 3K		1/10W
						R110	1-216-049-00	METAL CHIP	1K	5%	1/10W
C117	1-163-038-00	CERAMIC CHIP	0. 1uF		25V						
C118	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R111	1-216-049-00	METAL CHIP	1K	5%	1/10W
C119	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V	R112	1-216-083-00	METAL CHIP	27K	5%	1/10W
C120	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	R113	1-216-071-00	METAL CHIP	8. 2K	5%	1/10W
C151	1-163-019-00	CERAMIC CHIP	0. 0068uF	10%	50V	R114	1-216-105-00		220K		1/10W
						R152	1-216-073-00	METAL CHIP	10K	5%	1/10W
C152	1-163-038-00		0. 1uF		25V						
C153	1-163-006-11		560PF	10%	50V	R153	1-216-085-00		33K	5%	1/10W
C154	1-164-161-11		0.0022uF	10%	100V	R154	1-216-085-00		33K	5%	1/10W
C155	1-163-023-00	CERAMIC CHIP	0. 015uF	5%	50V		1-216-093-00		68K	5%	1/10W
C171	1-163-038-00	CERAMIC CHIP	0. 1uF		25V		1-216-081-00		22K	5%	1/10W
						R157	1-216-079-00	METAL CHIP	18K	5%	1/10₩
C172	1-163-038-00		0. 1uF		25V						
	1-163-038-00		0. 1uF		25V		1-216-079-00		18K	5%	1/10W
C174	1-163-038-00	CERAMIC CHIP	0. 1uF		25V		1-216-079-00		18K	5%	1/10W
						R160	1-216-049-00		1K	5%	1/10W
		< connector >				R171	1-216-001-00		10	5%	1/10₩ 1/10₩
CN101	1_569_706_11	SOCKET, CONNECTO	np 220			R172	1-216-001-00	METAL CHIP	10	5%	1/10W
		SOCKET, CONNECTO				R173	1-216-001-00	METAL CHID	10	5%	1/10W
		PIN, CONNECTOR		5P			1-216-001-00		10	5%	1/10W
								< VARIABLE RESI	STOR >	,	
						D\$74.0.4	1 000 010 44	DEG ADT GARRO	M 10V		
								RES, ADJ, CARBO			
					1	KY1U2	1-430-010-11	RES, ADJ, CARBO	IN TOW		

CD MAIN

CSMITCH	Ref. No.	Part No.	Description		Rei	nark	Ref. No.	Part No.	Description	on	Re	emark
STOPLE STOCK LEAF (LIMIT)			< SWITCH >				C535	1-137-358-91	FILM	0. 0001uF	5%	50V
A-4356-652-A CD MAIN BOARD, COMPLETE (D020)-AEP, E, IT, EA, EA, NIS, MY, SP/D309-AEP, E, IT, EA, NIS, MY, SP/D309							C536	1-110-335-11	MYLAR	100PF	5%	50V
*** A-4355-652-A CD MAIN BOMB. COMPLETE (0209-ABP. R. IT. E.E. A. JUS. NY. Sy/0309-ABP. R. IT. E.E. E. A. JUS. NY. Sy/0309-ABP. R. IT. E.E. E. A. JUS. NY. Sy/0309-ABP. R. IT. E.E. E. JUS. SY Sy/0309-ABP. R. IT. E.E. E. JUS. SY/0309-ABP. R. IT. E.E. E.E. E.E. E.E. E.E. E.E. E.E.	S101	1-572-085-11	SWITCH, LEAF (L	IMIT)			C536	1-137-358-91	FILM	0. 0001uF	5%	50V
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T. F.E. E.A. MIS. MY. SP7-309-AEP, E.I.T. E.A. C538 1-184-159-11 (CERMIC 0.1 Life 59V							C537	1-137-358-91	FILM	0. 0001uF	5%	50V
## A-4356-661-A CD MAIN BOARD. COMPLETE CS42 1-139-497-10 WILAM 0.001uF 5% 50V 1.000	*	A-4356-652-A	CD MAIN BOARD,	COMPLETE (D	209:AEP	, E,						
C542 1-13-47-00 MYLAR			IT, EE, EA, AUS, MY	, SP/D309:AE	P, E, IT,	EA,	C538	1-164-159-11	CERAMIC	0. 1uF		50V
A-4356-651-A CD MAIN BOARD. COMPLETE CORD-UK. G/D309-UK. G/D309-UK. G) CD309-UK. G/D309-UK. G/D309-UK. G) CD309-UK. G/D309-UK. G/D309-UK. G) CD309-UK. G/D309-UK. G/D309-UK. G) CD309-UK. G/D309-UK. G/D309-UK. G) CD309-UK. G							C539	1-164-159-11	CERAMIC	0. 1uF		50V
C2949-INC C-0909-INC C C544 1-130-471-00 MYLAR 0.001uF Sx 50V					*******	*****	C542	1-130-471-00	MYLAR	0.001uF	5%	50V
7-685-646-73 SCREW +BVTP 3X8 TYPE2 N-S	*	A-4356-661-A	•				C542	1-137-364-11	FILM	0.001uF	5%	50V
7-685-646-79 SCREW +BVTP 3/8 TYPE2 N-S							C543	1-130-471-00	MYLAR	0.001uF	5%	50V
7-885-646-79 SCREW +BVTP 3X8 TYPE2 N-S C544 1-124-907-11 ELECT 10uF 20% 50V C648 1-124-472-11 ELECT 470uF 20% 10V C650 1-124-95-11 ELECT 470uF 20% 10V C650 1-124-96-11 ELECT 470uF 20% 10V C650 1-124-96-11 ELECT 10uF 20% 50V C650 1-124-907-11 ELECT 10uF 20% 50V C650 1-130-480-00 MTAR 0.0056uF 5% 50V C650 1-164-159-11 C6RAMIC 0.1uF			******	****								
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CAPACITOR CAPA		7-685-646-79	SCREM +BAIL 3X8	TYPEZ N-S								
C549 1-124-443-00 ELECT 100			(GIRIGIMOR)				1					
C500 1-124-564-11 ELECT 4700uF 20% 25V C501 1-124-907-11 ELECT 10uF 20% 50V C502 1-126-176-11 ELECT 10uF 20% 50V C503 1-124-907-11 ELECT 10uF 20% 50V C503 1-164-159-11 CERAMIC 0.1uF 50V C504 1-124-907-11 ELECT 10uF 20% 50V C503 1-164-159-11 CERAMIC 0.1uF 50V C504 1-124-907-11 ELECT 10uF 20% 50V C505 1-124-907-11 ELECT 10uF 50V C506 1-124-472-11 ELECT 470uF 20% 50V C506 1-124-472-11 ELECT 470uF 20% 10V C505 1-130-480-00 MTLAR 0.0056uF 5% 50V C506 1-124-472-11 ELECT 470uF 20% 10V C505 1-130-480-00 MTLAR 0.0056uF 5% 50V C506 1-164-159-11 CERAMIC 0.1uF 50V C501 1-164-159-11 CERAMIC 0.0010uF 10% 50V C501 1-164-159-11 CERAMIC 0.0000UF 10% 50V C501 1-164-159-11 CERAMIC 0.0000UF 10% 50V C501 1-164-159-11 CERAMIC 0.0000UF 10% 50V C501 1-164-159-11 CERAMIC 0.000			< CAPACITOR >				1					
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C521 1-136-165-00 FILM				20042								
C522 1-124-472-11 ELECT	C521	1-136-165-00	FILM	0. 1uF	5%	50V	0000	1 104 155 11	OLIUMIO	o. rui		30 4
C524 1-126-176-11 ELECT 220uF 20% 10V C610 1-124-572-11 ELECT 100uF 20% 63V C525 1-164-159-11 CERAMIC 0. 1uF 50V C611 1-164-159-11 CERAMIC 0. 1uF 50V C612 1-124-907-11 ELECT 10uF 20% 50V C613 1-164-159-11 CERAMIC 0. 1uF 50V C614 1-124-443-00 ELECT 100uF 20% 10V C528 1-162-196-31 CERAMIC 5. 6PF 10% 50V C614 1-124-443-00 ELECT 100uF 20% 10V C529 1-162-196-31 CERAMIC 5. 6PF 10% 50V C615 1-124-472-11 ELECT 470uF 20% 10V C530 1-124-443-00 ELECT 100uF 20% 10V C616 1-164-159-11 CERAMIC 0. 1uF 50V C531 1-161-494-00 CERAMIC 0. 0. 022uF 25V C801 1-162-290-31 CERAMIC 470PF 10% 50V C801 1-162-290-31 CERAMIC 470PF 10% 50V C633 1-162-283-31 CERAMIC 120PF 10% 50V C801 1-162-290-31 CERAMIC 470PF 10% 50V C534 1-110-335-11 MYLAR 100PF 5% 50V * CN501 1-568-842-11 SOCKET, CONNECTOR 27P C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-1440-055-41 MYLAR 100PF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-1440-055-41 MYLAR 100PF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-1440-055-41 MYLAR 100PF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-1440-055-41 MYLAR 100PF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-1440-055-41 MYLAR 100PF 10 MYLAR 1							C609	1-164-159-11	CERAMIC	O TuF		50V
C525 1-164-159-11 CERAMIC							l .				20%	
C526 1-124-443-00 ELECT 100uf 20% 10V C612 1-124-907-11 ELECT 10uf 20% 50V C613 1-161-494-00 CERAMIC 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	C525	1-164-159-11	CERAMIC	0. 1uF		50V	l				20%	
C527 1-161-494-00 CERAMIC 0.022uF 25V C528 1-162-196-31 CERAMIC 5.6PF 10% 50V C529 1-162-196-31 CERAMIC 5.6PF 10% 50V C530 1-124-443-00 ELECT 100uF 20% 10V C531 1-161-494-00 CERAMIC 0.022uF 25V C531 1-161-494-00 CERAMIC 0.022uF 25V C532 1-162-283-31 CERAMIC 120PF 10% 50V C533 1-162-283-31 CERAMIC 120PF 10% 50V C534 1-110-335-11 MYLAR 100PF 5% 50V C534 1-137-358-91 FILM 0.0001uF 5% 50V C535 1-1568-842-11 SOCKET, CONNECTOR 22P		1-124-443-00	ELECT	100uF	20%	10V	1				20%	
C527 1-161-494-00 CERAMIC 0.022uF 25V C528 1-162-196-31 CERAMIC 5.6PF 10% 50V C529 1-162-196-31 CERAMIC 5.6PF 10% 50V C530 1-124-443-00 ELECT 100uF 20% 10V C530 1-124-443-00 ELECT 100uF 20% 10V C531 1-161-494-00 CERAMIC 0.022uF 25V C532 1-162-283-31 CERAMIC 120PF 10% 50V C533 1-162-283-31 CERAMIC 120PF 10% 50V C534 1-110-335-11 MYLAR 100PF 5% 50V C534 1-137-358-91 FILM 0.0001uF 5% 50V C535 1-168-842-11 SOCKET, CONNECTOR 22P							l				2070	
C529 1-162-196-31 CERAMIC 5. 6PF 10% 50V C615 1-124-472-11 ELECT 470uF 20% 10V C530 1-124-443-00 ELECT 100uF 20% 10V C616 1-164-159-11 CERAMIC 0. 1uF 50V C801 1-161-494-00 CERAMIC 0. 0.022uF 25V C801 1-162-290-31 CERAMIC 470PF 10% 50V C532 1-162-283-31 CERAMIC 120PF 10% 50V C533 1-162-283-31 CERAMIC 120PF 10% 50V C534 1-110-335-11 MYLAR 100PF 5% 50V * CN501 1-568-842-11 SOCKET, CONNECTOR 27P C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P	C527	1-161-494-00	CERAMIC	0. 022uF		25V						
C529 1-162-196-31 CERAMIC 5. 6PF 10% 50V C615 1-124-472-11 ELECT 470uF 20% 10V C530 1-124-443-00 ELECT 100uF 20% 10V C616 1-164-159-11 CERAMIC 0. 1uF 50V C801 1-161-494-00 CERAMIC 0. 0.022uF 25V C801 1-162-290-31 CERAMIC 470PF 10% 50V C532 1-162-283-31 CERAMIC 120PF 10% 50V C533 1-162-283-31 CERAMIC 120PF 10% 50V C534 1-110-335-11 MYLAR 100PF 5% 50V * CN501 1-568-842-11 SOCKET, CONNECTOR 27P C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-137-358-14 MYLAR 100PF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-1440-005-14 MYLAR 100PF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P	C528	1-162-196-31	CERAMIC	5. 6PF	10%	50V	C614	1-124-443-00	ELECT	100uF	20%	10V
C530 1-124-443-00 ELECT 100uF 20% 10V C616 1-164-159-11 CERAMIC 0. 1uF 50V C801 1-161-494-00 CERAMIC 0. 022uF 25V C801 1-162-290-31 CERAMIC 470PF 10% 50V C801 1-162-283-31 CERAMIC 120PF 10% 50V C533 1-162-283-31 CERAMIC 120PF 10% 50V C534 1-110-335-11 MYLAR 100PF 5% 50V * CN501 1-568-842-11 SOCKET, CONNECTOR 27P C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P C535 1.000 C536 11 MYLAR 100 C536 11 M		1-162-196-31	CERAMIC	5. 6PF	10%	50V	l					
C531 1-161-494-00 CERAMIC 0.022uF 25V C801 1-162-290-31 CERAMIC 470PF 10% 50V C532 1-162-283-31 CERAMIC 120PF 10% 50V C533 1-162-283-31 CERAMIC 120PF 10% 50V C534 1-110-335-11 MYLAR 100PF 5% 50V C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN501 1-568-842-11 SOCKET, CONNECTOR 27P C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P		1-124-443-00	ELECT		20%	10V						
C532 1-162-283-31 CERAMIC 120PF 10% 50V	C531	1-161-494-00	CERAMIC	0. 022uF		25V	1				10%	
C533 1-162-283-31 CERAMIC 120PF 10% 50V C534 1-110-335-11 MYLAR 100PF 5% 50V * CN501 1-568-842-11 SOCKET, CONNECTOR 27P C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P												
C534 1-110-335-11 MYLAR 100PF 5% 50V * CN501 1-568-842-11 SOCKET, CONNECTOR 27P C534 1-137-358-91 FILM 0.0001uf 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P									< CONNECTO	OR >		
C534 1-137-358-91 FILM 0.0001uF 5% 50V * CN502 1-568-822-11 SOCKET, CONNECTOR 22P												
0505 4 440 005 44 181 1D 40000 For FOR							l					
C535 1-11U-335-11 MYLAR 10UPF 5% 5UV * CN600 1-565-291-11 SOCKET, CONNECTOR 13P (SYSTEM CONTROL)							!					
	U535	1-110-335-11	MYLAK	10011	5%	5UV	* CN600	1-565-291-11	SOCKET, CO	ONNECTOR 13P (SYS	TEM CON	TROL)

CD MAIN

******										emark
* CN601	1-564-511-11	PLUG, CONNECTOR 8	P	Q508	8-729-119-78	TRANSISTOR 2	SC2785-HF	Έ		
				Q600	8-729-119-76	TRANSISTOR 2	SA1175-HF	E		
		< DIODE >		Q601	8-729-900-89	TRANSISTOR D	TC144ES			
				Q602	8-729-119-76	TRANSISTOR 2	SA1175-HF	Έ		
D504	8-719-000-54	DIODE UZL-6L3		Q605	8-729-119-78	TRANSISTOR 2	SC2785-HF	Έ		
D505		DIODE 1N4148M								
D506		DIODE UZL-6L3				< RESISTOR >				
D507		DIODE 11EQS04				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
D508		DIODE 1N4148M		R500	1-249-425-11	CARRON	4. 7K	5%	1/4W	F
2000	0 713 307 03	DIODE INTITOM		R501	1-249-425-11		4. 7K		1/4W	
D600	8-719-200-82	DIODE 11FC2		R502	1-249-423-11		3. 3K		1/4W	
D601	8-719-200-82			R504	1-249-417-11		1K	5%	1/4W	
D602	8-719-200-82			R505	1-249-417-11		1K	5%	1/4W	
				Roos	1 243 417 11	CAILDON	111	J /0	1/411	1
D603		DIODE HZS9A2L		DEGG	1 040 417 11	CADDON	117	Eω	1 /450	T.
D607	9-119-981-03	DIODE 1N4148M		R506	1-249-417-11		1K	5%	1/4W	
2000	0 740 007 00	DTODE 41144 4014		R507	1-249-417-11		1K	5%	1/4W	
D608		DIODE 1N4148M		R511	1-249-423-11		3. 3K		1/4W	
D801	8-719-500-36	D10DE, D2SB20		R512	1-249-423-11		3. 3K		1/4W	r
				R513	1-249-429-11	CARBON	10K	5%	1/4W	
		< FERRITE BEAD >								
				R514	1-249-441-11	CARBON	100K	5%	1/4₩	
FB601	1-412-473-21	INDUCTOR OUH		R515	1-249-429-11	CARBON	10K	5%	1/4₩	
FB602	1-412-473-21	INDUCTOR OUH		R516	1-249-417-11	CARBON	1K	5%	1/4W	F
FB603	1-412-473-51	INDUCTOR OUH		R517	1-249-417-11	CARBON	1K	5%	1/4W	F
FB604	1-412-473-21	INDUCTOR OUH		R518	1-249-420-11	CARBON	1. 8K	5%	1/4W	F
		< IC >		R519	1-249-417-11	CARBON	1K	5%	1/4W	F
		(10)		R520	1-249-429-11		10K	5%	1/4W	•
10500	8-759-071-48	IC TA78075		R521	1-249-433-11		22K	5%	1/4W	
	8-759-630-21			R522	1-249-433-11		22K	5%	1/4W	
	8-752-352-93			R523	1-249-433-11		22K	5%	1/4W	
	8-752-355-45			RJZJ	1-245-455-11	CARDON	2211	J /0	1/411	
				DEGA	1 040 400 11	CADDON	nnv	Εøν	1 /400	
10004	8-759-000-49	IC MC14066BCP		R524	1-249-433-11		22K	5% =~	1/4W	P
TOPOF	0 750 000 40	TO MEDDOI		R525	1-249-425-11		4. 7K		1/4W	Г
	8-759-633-42			R526	1-249-433-11		22K	5%	1/4W	
	8-759-634-51			R527	1-249-433-11		22K	5%	1/4W	
1C507	8-759-634-51	IC M5218AP		R528	1-249-433-11	CARBON	22K	5%	1/4W	
		< COIL >		R529	1-249-433-11	CARBON	22K	5%	1/4W	
				R530	1-249-433-11	CARBON	22K	5%	1/4W	
L501	1-410-513-11	INDUCTOR 22uH		R531	1-249-433-11	CARBON	22K	5%	1/4W	
				R532	1-249-433-11	CARBON	22K	5%	1/4W	
		< IC LINK >		R533	1-249-433-11		22K	5%	1/4W	
DCEUU	1-532-685-00	I TNV IC		DESA	1_940_410_11	CADDON	1 EV	E0v	1/4W	r.
				R534 R535	1-249-419-11 1-249-419-11		1. 5K		1/4W	
P3301	1-002-007-00	LINK, IC 1.0A					1. 5K			
		/ MD4 NG7 GMOD \		R536	1-249-419-11		1. 5K		1/4W	
		< TRANSISTOR >		R537	1-249-419-11		1. 5K		1/4W	
				R538	1-249-421-11	CARBON	2. 2K	5%	1/4W	F
Q500		TRANSISTOR 2SD774-				a. pp.ov				_
Q501		TRANSISTOR 2SB1094		R539	1-249-421-11		2. 2K		1/4W	F
Q502		TRANSISTOR DTA144F		R542	1-249-441-11		100K		1/4W	
Q503	8-729-900-65	TRANSISTOR DTA144E	S	R543	1-249-441-11	CARBON	100K	5%	1/4W	
Q504	8-729-900-65	TRANSISTOR DTA144E	S	R544	1-249-425-11	CARBON	4.7K	5%	1/4W	F
				R545	1-249-425-11	CARBON	4. 7K	5%	1/4W	F
Q505	8-729-141-30	TRANSISTOR 2SC3623	A-LK							
	9_720_141_20	TRANSISTOR 2SC3623	A-I.K	R548	1-249-425-11	CARBON	4.7K	5%	1/4W	F
Q506	0-729-141-30		11 111							

CD MAIN CD PANEL

,	WAI	IA	CD	PANE	- L				
	Ref. No.	Part	No.	Description				Re	mark
	R550	1-249	 -413-11	CARBON	_	470	5%	1/4W	F
	R551	1-249	-441-11	CARBON		100K	5%	1/4W	
	R552		-441-11			100K	5%	1/4W	
	R553	1-249	-441-11	CARBON		100K	5%	1/4W	
	R600	1-249	-409-11	CARBON		220	5%	1/4W	F
	R601	1-249	-409-11	CARBON		220	5%	1/4W	F
	R602	1-249	-433-11	CARBON		22K	5%	1/4W	
	R603	1-249	-433-11	CARBON		22K	5%	1/4W	
	R604	1-249	-433-11	CARBON		22K	5%	1/4W	
	R609	1-249	-435-11	CARBON		33K	5%	1/4W	
	R610	1-249	-438-11	CARBON		56K	5%	1/4W	
	R611	1-249	-429-11	CARBON		10K	5%	1/ 4W	
	R612	1-249	-429-11	CARBON		10K	5%	1/4W	
	R613	1-249	-417-11	CARBON		1K	5%	1/4W	F
	R614	1-249	-429-11	CARBON		10K	5%	1/4W	
	R615	1-249	-433-11	CARBON		22K	5%	1/4W	
	R616	1-249	-393-11	CARBON		10	5%	1/4W	F
	R617	1-249	-413-11	CARBON		470	5%	1/4W	F
	R801	1-249	-405-11	CARBON		100	5%	1/4W	F
				< TRANSFORM	ER >				
	⚠T 500	1-423	-426-11	TRANSFORMER	, PO	VER			
				< VIBRATOR	>				
	X501			VIBRATOR, C					
	******	*****	*****	*******	****	*****	****	*****	****
	*	A-435	6-653-A	CD PANEL BO IT, EE, EA, AU EE, MY, SP, CI	JS. MY. IS, AU	, SP/D3 S)	09:AE	EP, E, IT,	EA,
	*	A-435	6-662-A	CD PANEL BO (D209:UK, G/	ARD, D309:	COMPL :UK, G)	ETE		
	*	4-955	-816-01	HOLDER (1F)	, FL	TUBE			
				< CAPACITOR	>				
	C702	1-161	-494-00	CERAMIC		0. 022	uF		25V
	C703	1-161	-494-00	CERAMIC		0.022	uF		25V
	C704	1-161	-494-00	CERAMIC		0.022	uF		25V
	C705	1-164	-159-11	CERAMIC		0. 1uF			50V
	C706	1-124	-126-00	ELECT		47uF		20%	10V
				< CONNECTOR	1>				
	* CN701	1-568	-842-11	SOCKET, CON	NECTO	OR 27P			
				< COMPOSITI	ON C	IRCUIT	BLOC	к >	
	CP701	1-239	-612-11	COMPOSITION	CIR	CUIT B	LOCK		
				COMPOSITION					

Ref. No.	Part No.	Descript	tion			Re	mark
		< DIODE	>				
	8-719-987-63						
	8-719-987-63						
	8-719-987-63						
D704	8-719-987-63	DIODE 1	V4148M				
D705	8-719-987-63	DIODE 11	N4148M				
D706 D707	8-719-987-63						
	8-719-987-63 8-719-987-63						
	8-719-987-63 8-719-987-63						
טוזע	0-119-901-03	DIODE II	14140M				
	8-719-987-63						
D712	8-719-001-21	DIODE UZ	ZL-9H1				
		< FLUORE	ESCENT IN	NDICAT	OR >		
FLD701	1-519-681-21	INDICATO	OR TUBE,	FLUOR	ESCENT		
		< IC >					
IC701	8-759-156-33	IC uPD75	5216ACW-V	V32			
		< RESIST	ror >				
R701	1-249-435-11	CARBON		33K	5%	1/4W	
						1/4W	
	1-249-435-11			33K 33K	5%	1/4W	
	1-249-435-11			33K			
R705	1-249-435-11	CARBON		33K		1/4W	
R706	1-249-425-11	CARBON		4. 7K	5%	1/4W	F
R707	1-249-425-11	CARBON		4.7K	5%	1/4W	F
R708	1-249-439-11	CARBON		68K	5%	1/4W	
		< SWITCH	H >				
	1-554-303-21						
S702	1-554-303-21	SWITCH,	TACTILE	(REPE	AT)		
S703	1-554-303-21	SWITCH,	TACTILE	(PAUS	E)		
S704	1-554-303-21	SWITCH,	TACTILE				
S705	1-554-303-21	SWITCH,	TACTILE	(CONT	INUE)		
S706	1-554-303-21		TACTILE				
S707	1-554-303-21						
S708	1-554-303-21						
S709	1-554-303-21						
S710	1-554-303-21	SWITCH,	TACTILE	(TIME)		
S711	1-554-303-21		TACTILE		101.05	7)	
S712	1-554-303-21					:)	
S713	1-554-303-21						
S714						n.r.,	
S715	1-554-303-21	SWITCH,	TACTILE	(EDIT	/TIME	rADE)	

The components identified by Les composants identifiés mark A or dotted line with mark. 🛕 are critical for safety. Replace only with part number specified.

par une marque 🛕 sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

	C	D PANEL LEAF SW-A	LE	AF SW	-B LO	ADING	TO	MAIN
Ref. No.	Part No.	Description Remark	Ref. No.	Part No.	Description		Rei	nark
S716 S718 S719 S720	1-554-303-2 1-554-303-2	1 SWITCH, TACTILE (TIME SET) 1 SWITCH, TACTILE (MUSIC SCAN) 1 SWITCH, TACTILE (1) 1 SWITCH, TACTILE (6)	R81 R82	1-249-414-11 1-247-818-11		560 5% 300 5%	1/4W 1/4W	F
S721 S723 S724	1-554-303-2 1-554-303-2	1 SWITCH, TACTILE (11) 1 SWITCH, TACTILE (2) 1 SWITCH, TACTILE (7)	R83 R84 R85	1-247-834-11 1-249-417-11 1-249-408-11	CARBON CARBON	1. 3K 5% 1K 5% 180 5%	1/4W 1/4W 1/4W	
S725 S727 S728	1-554-303-2	1 SWITCH, TACTILE (12) 1 SWITCH, TACTILE (3) 1 SWITCH, TACTILE (8)	S81		<pre>< SWITCH > SWITCH, PUSH (</pre>		DET)	
S731 S732 S734 S736 S739	1-554-303-23 1-554-303-23 1-554-303-23	SWITCH, TACTILE (4) SWITCH, TACTILE (9) SWITCH, TACTILE (5) SWITCH, TACTILE (10) SWITCH, TACTILE (>12)	\$82 \$84 \$85 \$86 ******	1-571-281-21 1-571-281-21 1-571-281-21	SWITCH, LEAF (SWITCH, LEAF (SWITCH, LEAF (SWITCH, LEAF (************************************	ERASE PROOF) ERASE PROOF) HALF DET)	*****	****
S740 S741	1-554-303-21	SWITCH, TACTILE (CHECK) SWITCH, TACTILE (CLEAR)	*	1-632-202-11	LOADING BOARD			
S742	1-554-303-21	SWITCH, TACTILE (A. SPACE/A. CUE)			< CONNECTOR >			
X701	1-577-082-11	< VIBRATOR > VIBRATOR, CERAMIC 4MHz	* CN301	1-564-707-11	PIN, CONNECTOR < MOTOR >	(SMALL TYPE)	5P	
		***********	M201	X-4604-363-A	MOTOR (L) ASSY			
*	1-638-020-11	LEAF SW-A BOARD ************************************			< SWITCH >			
* CNP81	1-568-850-11	< CONNECTOR > SOCKET, CONNECTOR 7P	S271 S272 ******	1-572-086-11 1-572-086-11 ********		******	*****	***
1001	0 540 540 00	< IC >	*	A-4356-643-A	TC MAIN BOARD, IT, EE, EA, AUS, M	Y, SP/D309:AE		. *
IC81	8-719-710-03	DIODE NJL5165K-B < RESISTOR >	*	A-4356-654-A	TC MAIN BOARD,	**************************************	*****	****
R84 R85	1-249-417-11 1-249-408-11	=== === === === === ===================	ı.	4-049-204-01	(D209:UK, G/D309 ************** PLATE, GROUND			
		< SWITCH >	*	4-542-204-01	< CAPACITOR >			
S82 S86	1-571-281-21 1-571-281-21	SWITCH, PUSH (1 KEY) (STOP DET) SWITCH, LEAF (TYPE II DET) SWITCH, LEAF (HALF DET) ************************************	C122 C123 C126 C127	1-130-479-00 1-162-291-31 1-136-165-00 1-126-791-11	CERAMIC FILM	0. 0047uF 560PF 0. 1uF 10uF	5% 10% 5% 20%	50V 50V 50V 35V
*	1-638-020-11	LEAF SW-B BOARD ************************************		1-126-301-11	ELECT	1uF	20%	50V
	8-719-710-03	DIODE NJL5165K-B	C130 C131	1-124-465-00 1-126-791-11 1-164-159-11	ELECT CERAMIC	0. 47uF 10uF 0. 1uF	20%	50V 35V 50V
* CNP81	1-568-850-11	< CONNECTOR > SOCKET, CONNECTOR 7P	,	1-126-791-11 1-126-301-11		10uF 1uF	20% 20%	35V 50V
	**** **** **		C143 C222 C223	1-126-791-11 1-161-375-00 1-130-479-00 1-162-291-31 1-136-165-00	CERAMIC MYLAR CERAMIC	10uF 0. 0022uF 0. 0047uF 560PF 0. 1uF	20% 20% 5% 10% 5%	35V 50V 50V 50V 50V

TC MAIN

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Description	l 		Rei	mark
C227	1-126-791-11	FLECT	10uF	20%	35V	D302	8-719-987-63	DIODE 1N414	8M			
C228	1-126-301-11		1uF	20%	50V	D303	8-719-987-63	DIODE 1N414	8M			
C229	1-124-465-00		0. 47uF	20%	50V	D304	8-719-987-63					
C230	1-126-791-11		10uF	20%	35V	D305	8-719-200-82					
C231	1-161-377-00		0. 0047uF	20%	16V	D306	8-719-200-82	DIODE 11ES2	:			
C232	1-161-375-00	CERAMIC	0. 0022uF	20%	50V	D401	8-719-987-63					
C233	1-124-465-00	ELECT	0. 47uF	20%	50V	D402	8-719-987-63					
C241	1-126-301-11	ELECT	1uF	20%	50V	D403	8-719-987-63	DIODE 1N414	18M			
C242	1-126-791-11	ELECT	10uF	20%	35V							
C243	1-161-375-00	CERAMIC	0. 0022uF	20%	50V			< IC >				
C301	1-126-791-11	ELECT	10uF	20%	35V		8-759-098-75					
C302	1-126-926-11	ELECT	1000uF	20%	10V	IC301	8-759-071-48	IC M5F7807L				
C303	1-123-382-00	ELECT	3. 3uF	20%	100V	IC401	8-759-076-36	IC M50964-S	SOX-1044			
C304	1-164-159-11	CERAMIC	0. 1uF		50V		8-759-635-63		SL			
C305	1-164-159-11	CERAMIC	0. 1uF		50V	IC403	8-759-207-05	IC TA7272P				
C306	1-126-933-11		100uF	20%	16V			< TRANSISTO	OR >			
C307	1-126-933-11		100uF	20%	16V						•	
C308	1-126-926-11		1000uF	20%	10V	Q101	8-729-119-78					
C309	1-126-926-11		1000uF	20%	10V	Q201	8-729-119-78					
C310	1-126-791-11	ELECT	10uF	20%	35V	Q301	8-729-119-78			1		
						Q400	8-729-900-65					
C311	1-126-791-11		10uF	20%	35V	Q401	8-729-900-65	TRANSISTOR	DTA144ES			
C312	1-126-949-11	ELECT	220uF	20%	35V							
C314	1-124-584-00	ELECT	100uF	20%	10V	Q402	8-729-900-65					
C315	1-126-926-11	ELECT	1000uF	20%	10V	Q403	8-729-900-65					
C316	1-126-933-11	ELECT	100uF	20%	16V	Q404	8-729-900-65					
						Q405	8-729-900-65					
C317	1-126-933-11	ELECT	100uF	20%	16V	Q406	8-729-900-89	TRANSISTOR	DTC144ES			
C318	1-126-933-11		100uF	20%	16V							
C456	1-162-290-31		470PF	10%	50V	Q407	8-729-900-89					
C457	1-162-290-31		470PF	10%	50V	Q408	8-729-900-65			,		
C458	1-164-159-11	CERAMIC	0. 1uF		50V	Q409	8-729-119-78					
						Q410	8-729-119-78					
C459	1-164-159-11	CERAMIC	0. 1uF		50V	Q411	8-729-801-84	TKANSISIUK	ZSB1013-4			
		< CONNECTOR >				Q412	8-729-801-84	TRANSISTOR	2SB1013-4			
						Q413	8-729-900-65	TRANSISTOR	DTA144ES			
* CN101	1-564-523-11	PLUG, CONNECTOR	8P			Q414	8-729-900-89	TRANSISTOR	DTC144ES			
		PLUG, CONNECTOR										
* CN302	1-564-506-11	PLUG, CONNECTOR	3P			Ì		< RESISTOR	>			
		PLUG, CONNECTOR										
		PLUG, CONNECTOR				R120	1-215-451-00	METAL	18K	1%	1/6W	
		•				R121	1-249-430-11	CARBON	12K	5%	1/4W	
CN402	1-580-783-11	CONNECTOR, BOAF	RD TO BOARD			R122	1-249-431-11	CARBON	15K	5%	1/4W	
		CONNECTOR, BOAR				R123	1-249-425-11	CARBON	4.7K	5%	1/4W	F
CN404	1-580-783-11	CONNECTOR, BOAR	RD TO BOARD			R124	1-249-428-11	CARBON	8. 2K	5%	1/4W	F
		SOCKET, CONNECT										
		SOCKET, CONNECT				R125	1-249-429-11	CARBON	10K	5%	1/4W	
						R127	1-249-429-11	CARBON	10K	5%	1/4W	
CN407	1-568-441-11	SOCKET, CONNECT	TOR 9P			R130	1-249-429-11	CARBON	10K	5%	1/4W	
		SOCKET, CONNECT				R131	1-249-425-11	CARBON	4.7K	5%	1/4W	F
						R132	1-249-429-11	CARBON	10K	5%	1/4W	
		< DIODE >				D400	1 040 400 4	CADDON	1017	E0/	1 /AST	
D301	8-719-000-78	B DIODE UZL-7L2				R133 R135	1-249-429-11 1-247-864-11		10K 24K	5% 5%	1/4W 1/4W	

TC MAIN TC PANEL (A)

Ref. No.	Part No.	Description		•	Re	emark	Ref. No.	Part No.	Description			Re	mark
R136	1-249-429-11	CARBON	10K	5%	1/4W		R425	1-249-417-11	CARBON	1K	5%	1/4W	F
R137	1-249-429-11	CARBON	10K	5%	1/4W		R426	1-249-417-11		1K	5%	1/4W	
R138	1-249-429-11	CARBON	10K		1/4W		R427	1-249-417-11		1K	5%	1/4W	
R141	1-249-421-11	CARBON	2. 2K	5%	1/4W	F	R431	1-249-429-11		10K	5%	1/4W	•
R142	1-249-428-11		8. 2K		1/4W		R432	1-249-415-11		680	5%	1/4W	F
R143	1_247_040_00	CADDON	2 47	E0/	1 /450		D400	1 040 400 44	GIDDON	407	50 /	4 /400	
R143	1-247-840-00		2. 4K		1/4W		R433	1-249-429-11		10K	5%	1/4W	_
R144	1-249-433-11		22K	5%	1/4W	г	R434	1-249-415-11		680	5%	1/4W	F
	1-249-417-11		1K	5%	1/4W	r	R435	1-249-429-11		10K	5%	1/4W	
R221	1-249-430-11		12K	5%	1/4W		R451	1-249-425-11		4. 7K		1/4W	F
R222	1-249-431-11	CARBON	15K	5%	1/4W		R452	1-249-435-11	CARBON	33K	5%	1/4W	
R223	1-249-425-11	CARBON	4. 7K	5%	1/4W	F	R453	1-249-437-11	CARBON	47K	5%	1/4W	
R224	1-249-428-11	CARBON	8. 2K	5%	1/4W	F	R454	1-247-872-11	CARBON	51K	5%	1/4W	
R225	1-247-882-11	CARBON	130K	5%	1/4W		R455	1-247-862-11	CARBON	20K	5%	1/4W	
R226	1-247-866-11	CARBON	30K	5%	1/4W		R456	1-247-866-11	CARBON	30K	5%	1/4W	
R229	1-249-429-11	CARBON	10K	5%	1/4W		R457	1-247-872-11	CARBON	51K	5%	1/4W	
R230	1-249-432-11	CARBON	18K	5%	1/4W		R458	1-249-405-11	CARRON	100	5%	1/4W	E.
	1-247-885-00		180K		1/4W		R459	1-249-381-11		1	5%	1/4W	
	1-249-421-11		2. 2K		1/4W	F	R460	1-249-381-11		1	5%	1/4W	_
	1-249-428-11		8. 2K		1/4W		R461	1-249-425-11		4. 7K		1/4W	
	1-247-840-00		2. 4K		1/4W	ı	R462	1-249-435-11					Г
112-10	1 247 040 00	CALDON	2. 411	J/6	1/4#		1402	1-249-433-11	UARDUN	33K	5%	1/4W	
R244	1-249-433-11	CARBON	22K	5%	1/4W		R463	1-249-437-11	CARBON	47K	5%	1/4W	
R245	1-249-417-11	CARBON	1K	5%	1/4W	F	R464	1-247-872-11		51K	5%	1/4W	
R300	1-249-405-11	CARBON	100	5%	1/4W	F'	R465	1-247-862-11		20K	5%	1/4W	
R301	1-249-421-11	CARBON	2. 2K	5%	1/4W		R466	1-247-866-11		30K	5%	1/4W	
R302	1-249-405-11	CARBON	100	5%	1/4W		R467	1-247-872-11		51K	5%	1/4W	
R303	1-249-422-11	CARRON	2. 7K	5%	1/4W	F	R468	1-249-405-11	CADRON	100	5%	1/4W	E
	1-249-393-11		10	5%	1/4W		R469	1-249-381-11		1	5%		
	1-249-389-11		4. 7	5%	1/4W			1-249-381-11		1	5%	1/4W	
	1-249-429-11		10K	5%	1/4W	1	1	1-249-429-11			5%	1/4W	Г
	1-247-903-00		1M	5%	1/4W		R471					1/4W	D.
11102	1 247 300 00	OAIDON	IM	3/0	1/411		N412	1-249-425-11	CARDUN	4. 7K	5%	1/4W	r
R403	1-247-895-00	CARBON	470K	5%	1/4W		R473	1-249-434-11	CARBON	27K	5%	1/4W	
R404	1-247-895-00	CARBON	470K	5%	1/4W		R474	1-249-429-11		10K	5%	1/4W	
R405	1-249-408-11	CARBON	180	5%	1/4W	F		1-249-425-11		4. 7K		1/4W	F
R406	1-249-408-11	CARBON	180	5%	1/4W		R477	1-249-434-11		27K		1/4W	•
R407	1-249-410-11	CARBON	270	5%	1/4W						0.0	-,	
D.400	4 045 040 44	n. pp.ov							< VARIABLE RES	SISTOR >			
	1-247-812-11 (160	5%	1/4W								
	1-247-812-11 (•	160	5%	1/4W		1		RES, ADJ, CARE				
	1-247-816-11 (240	5%	1/4W		RV201	1-230-496-11	RES, ADJ, CARE	ON 10K			
	1-247-812-11 (160	5%	1/4W								
R412	1-249-411-11 (CARBON	330	5%	1/4W				< VIBRATOR >				
R413	1-249-429-11 (CARBON	10K	5%	1/4W		¥401	1-577-358-91	VIBRATOR, CERA	MIC			
	1-249-429-11 (10K	5%	1/4W		l .		******		alle alle alle alle alle alle		***
	1-249-421-11 (2. 2K		1/4W	F		 যে যে যে কে কি	energy transfer	TTTTT	কৰাকাৰ	···ጥጥጥጥ	
	1-249-421-11 (2. 2K		1/4W		*	1-6/6-997-11	TC DANEI (A) D	UVDD			
	1-249-437-11 (5%	1/4W	•			TC PANEL (A) B *******				
D440		I Prou	4.05-										
	1-249-429-11 (5%	1/4W	_		•	<pre>< CONNECTOR ></pre>				
	1-249-425-11 0		4. 7K		1/4W								
	1-249-425-11 0		4. 7K		1/4W	F	CN451	1-568-442-11	SOCKET, CONNEC	TOR 9P			
R423	1-249-429-11 0	AKBUN	10K	5%	1/4W		1						

TC PANEL (A) TC PANEL (B)

	(/												
Ref. No.	Part No.	Description			Re	mark	Ref. No.	Part No.	Description			Re	emark
		< DIODE >						1-249-420-11 1-249-424-11		1. 8K 3. 9K		1/4W 1/4W	
D481	8-710-313-65	DIODE SEL2410E	-TH10										
D481	8-719-301-49								< SWITCH >				
D402		LED SEL2810A											
D-400	0 713 301 43	ELD DELECTOR					S451	1-554-303-21	SWITCH, TACTILE	(STO	P)		
		< RESISTOR >					S452		SWITCH, TACTILE				
		/ ILBIBION /					S453		SWITCH, TACTILE		,,		
D401	1 940 407 11	CADDON	150	5%	1/4W	E	S454		SWITCH, TACTILE	. ,			
R481	1-249-407-11 1-249-409-11		220	5%	1/4W		S455		SWITCH, TACTILE		MUTE)		
R482			680	5%	1/4W		5433	1 334 303 21	DWITCH, INCILL	(1110	more,		
R483	1-249-415-11		1K	5%	1/4W		S456	1-554-303-21	SWITCH, TACTILE	(44)			
	1-249-417-11					r	S457		SWITCH, TACTILE				
R485	1-249-426-11	CARBON	5. 6K	3%	1/4W		S457		SWITCH, TACTILE				
B.100	4 040 400 44	CA DRON	107	E6/	4 /400				SWITCH, TACTILE			DEED H	ICH)
R486	1-249-430-11	CARBON	12K	5%	1/4W		S459						
							S460	1-004-303-21	SWITCH, TACTILE	ומטע)	oing o	PEED N	UMMAL)
		< SWITCH >					7404	4 884 000 04	ONLINGIE MAGNITE	/000) (an	ownorm	0)
			_ /						SWITCH, TACTILE				
S401		SWITCH, TACTIL)			******	*****	******	****	*****	*****	*****
S402		SWITCH, TACTIL											
S403		SWITCH, TACTIL							MISCELLANEOUS				
S404	1-554-303-21	SWITCH, TACTIL	E (◀◀)						*****				
S405	1-554-303-21	SWITCH, TACTIL	E (>>)										
									WIRE, FLAT TYPE				
S406	1-572-269-11	SWITCH, SLIDE	(DOLBY	NR)				1-638-983-11	PC BOARD, MOTOR	? FLEX	IBLE		
S407	1-572-268-11	SWITCH, SLIDE	(DIRECT	ION M	ODE)			1-696-634-21	WIRE (FLAT TYPE	(22	CORE)		
******	*****	*****	*****	****	******	****	A	8-848-144-11	DEVICE, OPTICAL	KSS-	240A		
*	1-646-888-11	TC PANEL (B) B	OARD				56	1-751-209-11	WIRE (FLAT TYPE	(9 (CORE)		
		******	****				64	1-590-574-11	WIRE, FLAT TYPI	(7 C	ORE)		
							65	1-590-485-11	WIRE, FLAT TYPI	E (7 C	ORE)		
		< CONNECTOR >					69	1-690-729-11	WIRE, FLAT TYP	27	CORE)		
CN452	1-568-443-11	SOCKET, CONNEC	TOR 13F)			71		WIRE, FLAT TYP				
							71	1-751-210-11	WIRE (FLAT TYP)	E) (13	CORE)	(D209/	D309:
		< DIODE >							AEP, UK, E, G, IT, I	EE, EA,	MY, SP,	CIS)	
							* 161	1-452-538-11	MACNET				
D491	8-719-301-37	LED SEL2210S	-CD						DECK ASSY, HEA	ח (חוני	V A)		
D492	8-719-301-49												
D493		DIODE SEL2410E	-TH10						DECK ASSY, HEA	D (DEC	V D)		
D494	8-719-301-49						1	8-759-604-95		10077	/0DT1		TOD)
D495	8-719-301-49								BASE (OUTSERT)			DE WOI	IOR)
2 100	0 110 001 10		-				M901		MOTOR ASSY (CA				
D496	8-719-301-37	LED SEL2210S	-CD (D3	309)			M902		MOTOR ASSY (RE	-			
D497	8-719-301-37		,	,00,			Q302	8-729-209-15	TRANSISTOR 2SD	2012			
D498	8-719-301-37						*****	******	******	*****	*****	*****	*****
D430	0 713 301 37	PED BEP77105	00										
		< RESISTOR >						ACCESSORIE	S & PACKING MAT	ERIALS			
		\ ILDIDION /						******	******	*****			
D400	1_240_407_11	CADDON	150	E9/	1/4W	E							
R490	1-249-407-11		220	5% 5%	1/4W		* 10	3-703-713-41	STICKER, SONY	SYMBOL	(10)		
R491	1-249-409-11			5% 5%		r			(D209:AUS/D309	:UK, AU	S)		
R492	1-249-411-11		330	5%	1/4W	E	* 5	4-941-548-01	LABEL, CLASS 1				
R493	1-249-413-11		470	. 5%	1/4W	r	*		INDIVIDUAL CAR	TON (E	209:AI	EP, IT)	
R494	1-249-411-11	CARBON	330	5%	1/4W		*		CUSHION (D209:			/	
							****		*******			*****	*****
R495	1-249-413-11		470	5%	1/4W					. •			
R496	1-249-415-11		680	5%	1/4W								
R497	1-249-417-11	CARBON	1K	5%	1/4W	F	1						

Ref. No. Part No. Description Remark

******* HARDWARE LIST *******

- #1 7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S #2 7-621-775-10 SCREW +B 2.6X4
- 7-621-255-15 SCREW +P 2X3 #6
- 7-621-775-00 SCREW +B 2.6X3 #7
- #8 7-627-556-08 SCREW +P 2.6X2.8

HTC-D209/D309

-48-

STR-A37/D309/D359

SERVICE MANUAL



AEP Model
STR-D309/D359

UK Model
STR-D359

Australian Model
E Model
PX Model

This set is the tuner and amplifier

section in

STR-A37 : LBT-A37CDM STR-D309 : LBT-D309CD

STR-D309 : LBT-D309CD STR-D359 : LBT-D359CD

Photo is STR-D359

SPECIFICATIONS

• STR-A37

Tuner

System

FM stereo

FM/AM superheterodyne tuner

FM tuner section

Tuning range Antenna 87.5 to 108 MHz 75 ohms unbalanced 300 ohms balanced

Intermediate frequency 10.7 MHz

AM tuner section

Tuning range

531 to 1,602 kHz (at 9 kHz step) 530 to 1,710 kHz (at 10 kHz step)

Antenna

AM loop antenna

External antenna terminal

Intermediate frequency 450 kHz

Amplifier

Peak music power output 700 W (6 ohms, 4 speakers driven)

Continuous RMS power output

 $55~\mathrm{W}~+~55~\mathrm{W}$ (6 ohms, at 1 kHz, 5%

THD)

Input	Jack type	Sensitivity	Impedance
VIDEO IN	Phono	300 mV	47 kohms
PHONO IN	Phono	3 mV	47 kohms
MIC	Phone	1 mV	10 kilohms

Output	Jack type	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 8 – 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

Frequency response

VIDEO: 15 Hz to 50 kHz $^{+0}_{-3}$ dB

General

Power requirements

110 - 120 V/220 - 240 V AC, adjustable

with the VOLTAGE SELECTOR,

50/60 Hz 155 W

Power consumption

Mass Approx. 7.3 kg

Dimensions Approx. 355 × 225 × 330 mm

(w/h/d, including projections)

• STR-D309/D359

Tuner

System

FM stereo

FM/AM superheterodyne tuner

FM tuner section 65.0 to 74.0MHz (East European model)

Tuning range 87.5 to 108 MHz
Antenna 75 ohms unbalanced

Intermediate frequency 10.7 MHz

AM tuner section

Tuning range

(German model)

531 to 1,602 kHz (Italian model) 522 to 1,611 kHz (Other models)

MW: 531 to 1,602 kHz LW: 153 to 279 kHz AM loop antenna

Antenna AM loop antenna External antenna terminal

Intermediate frequency 3450 kHz

Continued on next page —



STEREO FM-AM RECEIVER

SONY

Amplifier

DIN power output

50 W + 50 W (6 ohms, at 1 kHz)

Continuous RMS power output

60 W + 60 W (6 ohms, at 1 kHz, 5%

THD)

Music power output

90 W + 90 W (6 ohms)

Input	Jack type	Sensitivity	Impedance
VIDEO IN	Phono	300 mV	47 kohms
PHONO IN	Phono	3 mV	47 kohms

Output	Jack type	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

Frequency response

VIDEO: 15 Hz to 50 kHz $^{+0}_{-3}$ dB

Power requirements

220 - 230 V AC, 50/60 Hz

Power consumption

150 W

Mass

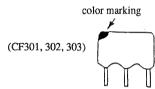
Approx. 7.3 kg

Dimensions

Approx. $355 \times 225 \times 330 \text{ mm}$ (w/h/d, including projections)

Note on Ceramic Filter (CF301, ▲302, 303) Replacement. (PANEL BOARD : D609, D610)

This set employs two ceramic filters (CF301, \$\triangle 302, 303) which should have the same color marking to identify their center frequency. therefore FM IF offset adjustment by (*A, *B) connection is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



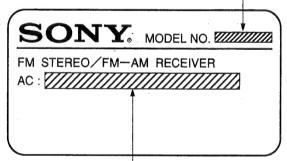
▲CF302: G, IT model

O:short X :open

(Ceramic filter	Conn	ection	FM intermediate	
Color mark	Center frequency (MHz)	*A (D610)	*B (D609)	frequency (MHz)	
White	10.750	X	0	10.750	
Red	10.700	×	х	10.700	
Black	10.650	0	x	10.650	

MODEL IDENTIFICATION

- Model Number Portion -STR-A37, D309, D359



AEP, G, IT, EE, CIS Model: 220-230V~50/60Hz 150W

UK Model: 240V~50Hz

E, AUS, PX Model: 110-120V/220-240V~50/60Hz 155W

Note:

G model : Germany model IT model : Italian model

EE model : East European model AUS model: Australian model

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK $\underline{\Lambda}$ OR DOTTED LINE WITH MARK $\underline{\Lambda}$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

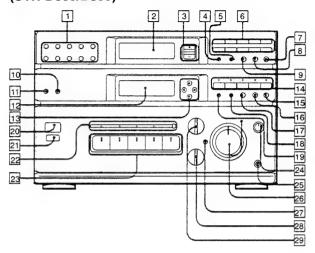
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SECTION 1 **GENERAL**

LOCATION OF CONTROLS

(STR-D309/D359)



- 1 Buttons for setting the clock and timer
- 2 Display window
 3 DUAL MODE TUNING +/- buttons
- 4 MEMORY button
- CHARACTER button 5
- 6 Numeric buttons
 7 SHIFT button
- B BAND SELECT button
- 9 ST/MUTE button

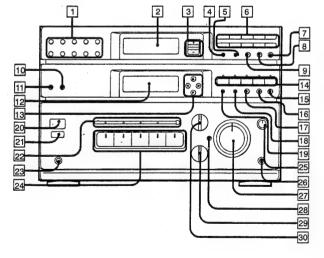
Graphic Equalizer

- 10 REVERSE button
- 11 FLAT button
- 12 Display window
- 13 CURSOR CONTROL buttons
- [14] Preset/numeric buttons and indicators
- 15 DISPLAY button
- 16 PERSONAL FILE button and indicator
- 17 MEMORY button and indicator
- 18 EQ REC (equalizer recording) button and indicator
- 19 EFFECT button and indicator

Amplifier

- SYSTEM POWER button
- 21 Remote control sensor
 22 SURROUND button and indicator
- 3 Function selectors and indicators (VIDEO/TAPE/CD/TUNER/PHONO)
- BALANCE control
- 图 HEADPHONES jack 图 VOLUME control and VOLUME control and indicator
- DBS ON/OFF (Dynamic Bass System) button and indicator
- 28 DBS FREQUENCY of DBS LEVEL control DBS FREQUENCY control

(STR-A37)



Tuner

- 1 Buttons for setting the clock and timer
- 2 Display window
 3 DUAL MODE TU DUAL MODE TUNING +/- buttons
- 4 MEMORY button
- 6 CHARACTER button
- 6 Numeric buttons
- 7 SHIFT button
 B BAND SELECT button
- 9 ST/MUTE button

Graphic Equalizer

- 10 REVERSE button
- FLAT button
- 12 Display window
 13 CURSOR CONTROL buttons
- Preset/numeric buttons and indicators
- 15 DISPLAY button
- 16 PERSONAL FILE button and indicator
- 17 MEMORY button and indicator
- 18 EQ REC (equalizer recording) button and indicator
- 19 EFFECT button and indicator

Amplifier

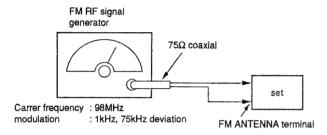
- SYSTEM POWER button
- 21 22 23 Remote control sensor SURROUND button and indicator
- MICROPHONE jacks
- 4 Function selectors and indicators (VIDEO/TAPE/CD/TUNER/PHONO)
- BALANCE control HEADPHONES jack
- 26 27
- VOLUME control and indicator
- DBS ON/OFF (Dynamic Bass System) button and indicator
- 29 DBS FREQUENCY control
- 30 DBS LEVEL control

SECTION 2 ADJUSTMENTS

Note: As a front-end (FE301) is difficult to repair if faulty, replace it with new one.

FM SECTION

Setting:



TUNER OUT CHECK POINT

SPEAKER out receive 98MHz (EXCEPT EE), 70MHz (EE) 60dB μ (1mV) and set the Speaker out to 10dBs by VOLUME.

Speaker load: 6Ω both CH

FM NULL Adjustment

Procedure:

- Supply a 60dB μ (1mV) 98MHz (EXCEPT EE), 70MHz (EE) signal from the ANTENNA terminal.
- 2. Tune the set to 98MHz. (EXCEPT EE), 70MHz (EE)
- 3. Adjust T301 for 0V reading on the measurement point.

FM Tuned Level Adjustment

Band: FM

ST/MUTE SW: OFF

Procedure:

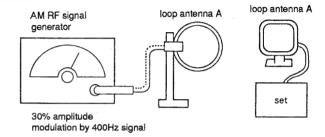
- 1. Supply a $20\pm4dB\mu$ (EE), $25\pm4dB\mu$ (EXCEPT EE) 98MHz (EXCEPTEE), 70MHz (EE) signal from the ANTENNA terminal.
- 2. Tune the set to 98MHz. (EXCEPT EE), 70MHz (EE)
- 3. Adjust RV302 so that the Voltage of IC301 @ pin is set to low.

Adjustment Location: ST MAIN BOARD

 Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by trimmer capacitors.

AM SECTION

Setting:



AM Tuned Level Adjustment

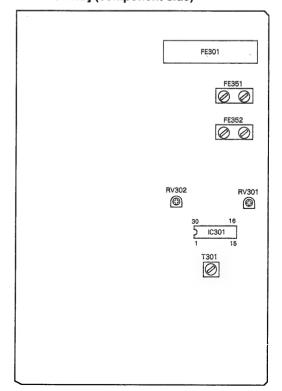
Band: AM

Procedure:

- 1. Set loop antenna input level to 94dBµ/m, 1050kHz and no signal tuned light should not on.
- 2. Ture the set to 1050kHz
- 3. Adjust RV301 so that the Voltage of IC301 ② pin is set to low.

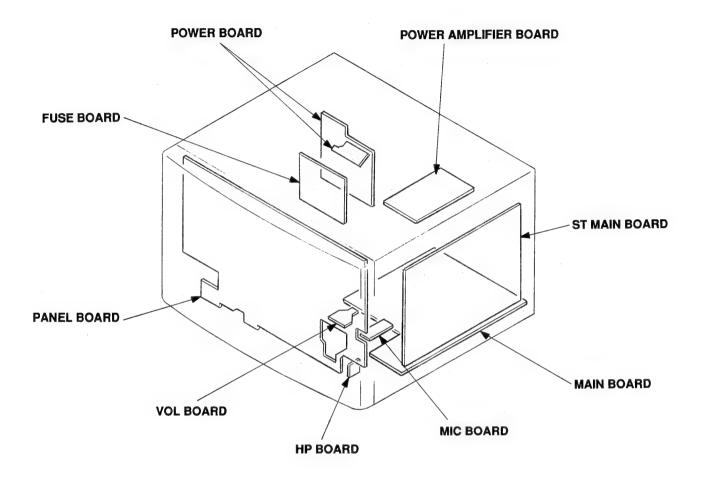
Adjustment Location: tuner board

[ST MAIN BOARD] (component side)

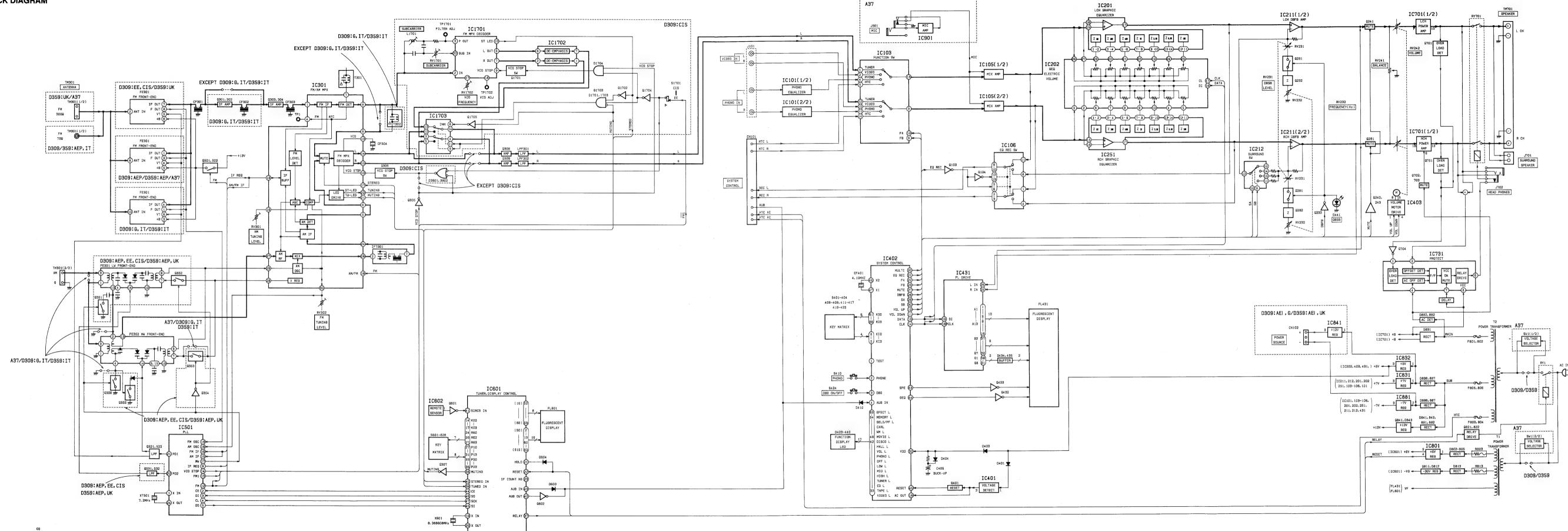


SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. BLOCK DIAGRAM

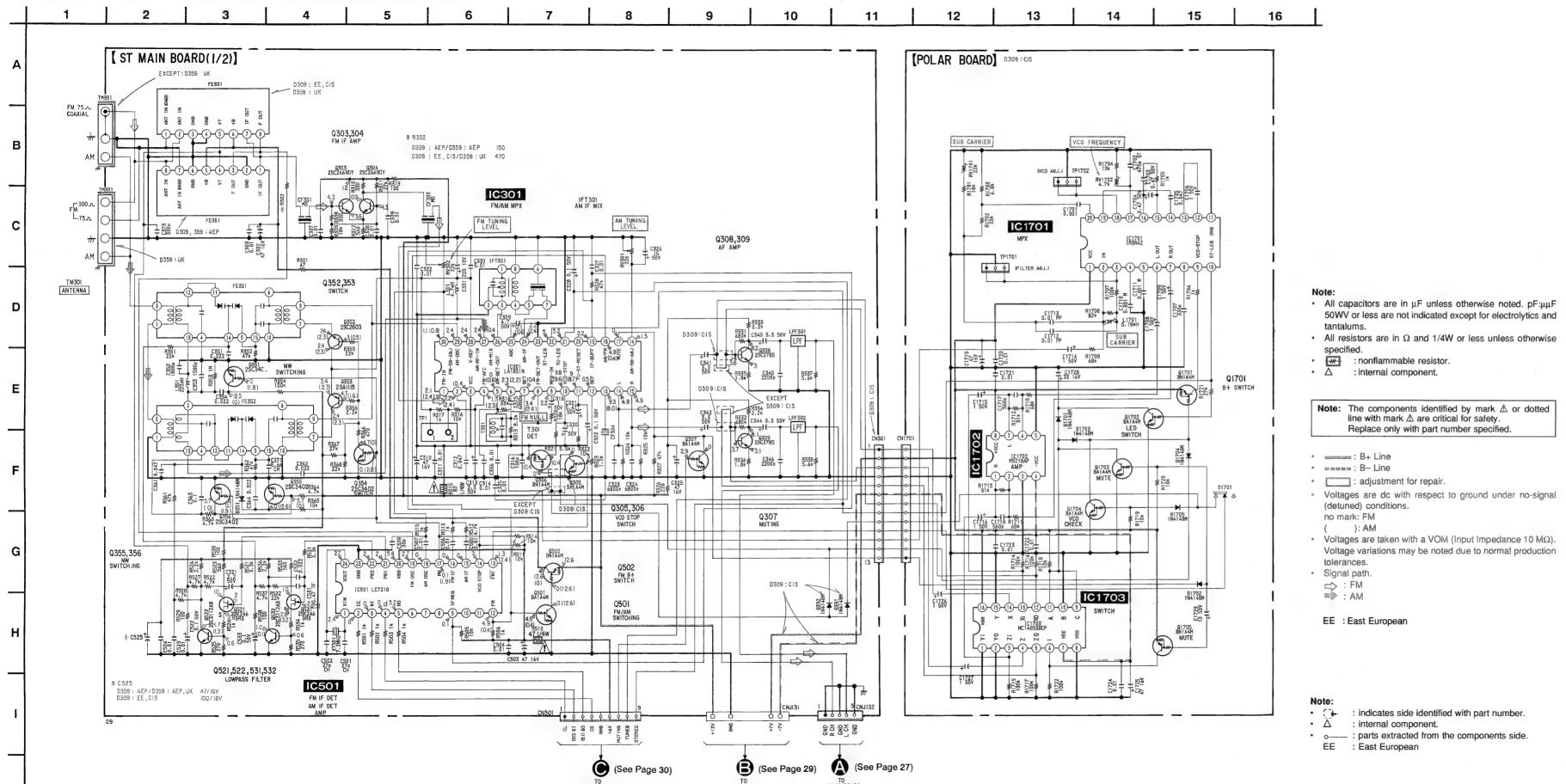


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3-3. SCHEMATIC DIAGRAM

- TUNER SECTION (STR-D309 : AEP, EE, CIS) (STR-D359 : AEP, UK)
- See page 41, 42 and 43 for Semiconductor Lead Layouts and IC Block Diagrams.

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-- 12 -

3-4. PRINTED WIRING BOARD

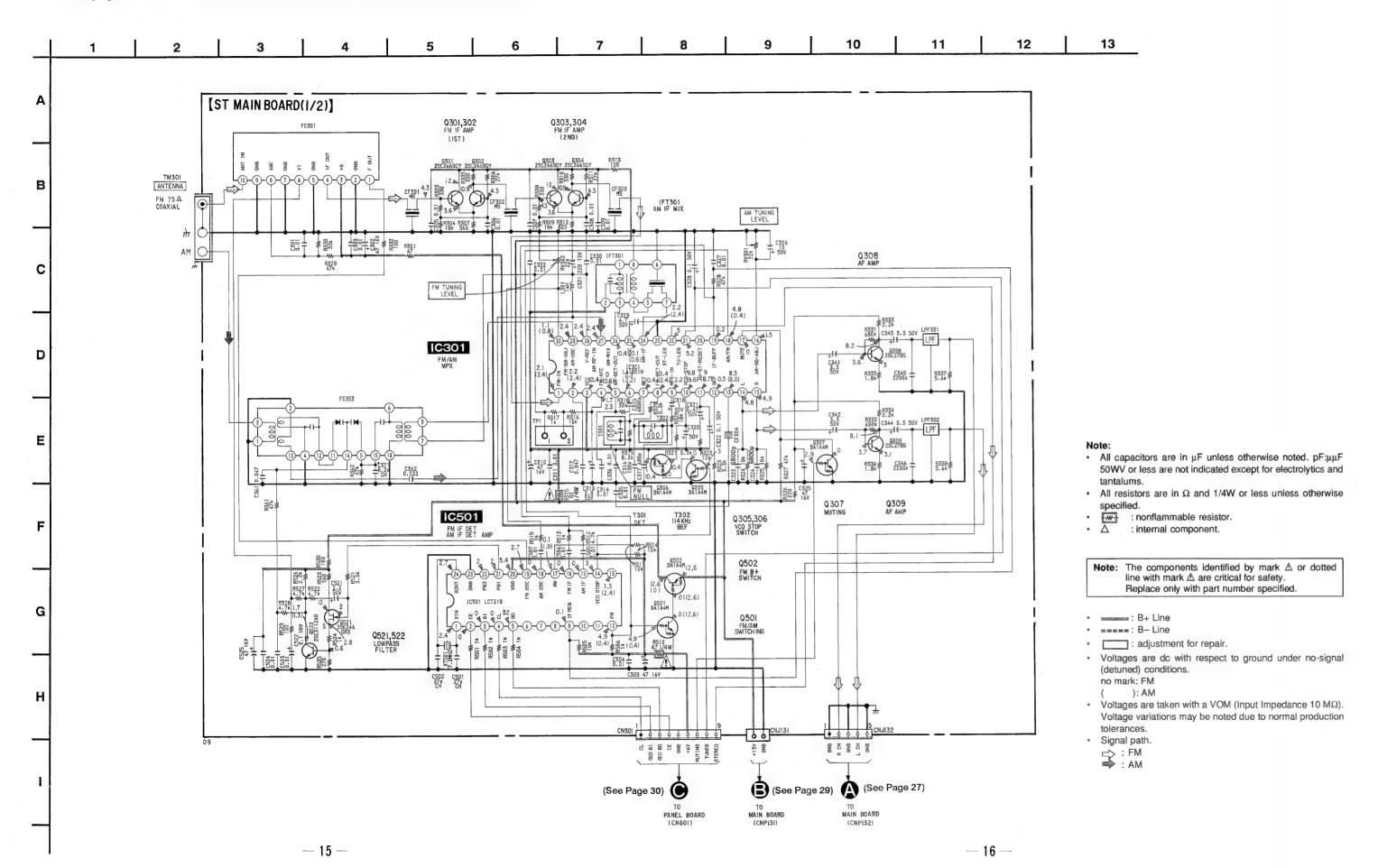
- TUNER SECTION (STR-D309: AEP, EE, CIS) (STR-D359: AEP, UK)

			1.		2		3	4		5		6		7		88	9
	DUCTOR LOCATION					ST MAIN	POARON										
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391	1-4					EXCEPT <		10		.↓ RE	29 0-W-0	il(-0					
392	H-4					D359: UK	0 0 0 0	D359: UK	,D309,D35	9 9 9 9	260-W-0	7	C206				
C201	C-7					FE301	6 60		MODEL (B)	- 5 T R	23°-4W-0 °-	-W-o ^{R525}	€206 © - C207 - (-		>- -> C218		
C202	E-7						0000	932 0			C52I 0-	-w-c	o+I(+o`		oHF0c219		
C251	F-7	В								1 R302 P	521 538 W O	1 0521	c209	IC201	o-11-0 cs16		
C301	F-3					D309 EE	CIS			0-W-0 R	537-W-0 0 ₁	HC-00533	C208		9-11-0 C217		
501	D-5					D359; UK	0	0	0	1	532-W-0	₹ 60532	C209 © 16 0 C208 C211 C210 C213	4 4			
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304	D-4		i	_ ≚ :		ıπ	FES.	i 0-1(-		R	91H9	9 9sQ53I	0213 	4 1	6202		
805	H-4] [3:	† 🖞 ,	# FEE		3 04 ⁶⁵ 9 013 914 015	7 1 1002		, i	53 0-W-0 [6524	C212 S-11- C214 L-214	1 200	(0-11-0)	-o	
06	H-4	C		1 10	ا ال	0 OI	0127 010 010 01		50			C525	C214		oW-∞ R203	CNJI32	
07	G-5 H-5					035	14/0 0 8 8 0	R355		C339		R530	0215 0-11-0	0	оНН- D203	40 50	
9	H-5		C	FE352		53 26		() () () () () () () () () ()	119/0 //	0 1 € R515 €	9	W-0				20	TO.
51	C-3		(3) (4)] ⁽⁵⁾ .		9 9 3		F#352		R513	R510			*1 *1	0 11 6		MAIN BOARD (CNPI32)
352	C-4		2 m 3:	∔ ⑭		21 lo	04 05 0	19 0353	40	o-W-0	0503			8		0	(See Page 2
53	D-4] 🛊 :		0000	012 011 010 0	e e e	07	9118	C504	0609		OP201	3///	(*)	
54	E-3		<u> </u>	<u>~</u>		3	0 0 0 11 0	33 0 0303 V2/0 3	W 08	10 TT	7770	HHO		8000000	600)		
55 56	D-2 D-3					K 61	364 H 2 2 3 3 8	0304	25 TS	300000	19 24	£g /	Siron		0-0-0-0-1		
01	E-2					R365	9-18-19	O Med	R31: ₹8	lC:	501	汞	37 18	16 06 0	25 28		
2	E-3					R364 0-W	9 2 2 9 2	0.354	R310 13 °C C309	300000	00000	C50 -110	8 1 14.	10 202	140		
21	B-6					Lo Co	STATE TO	W-13	- -0	0 0 0 0			S Ho-o-	0000000	100000		
2	A-6	E				950I Q5	00 E	366 R313			A A A A			6005	000		
2	C-6				FT301	\$301 Q3	92	301 C 331		R 50 51	R502 R502 R501	R21	C264	C9/23			
	B-6					9	0 0 07 68	201 216		90 0	0 0 0	¥ **	2264 120HH 12265	(C25)	oHI-∞c266		
					3 8	08.83	8 T 06	02 c33	O-Man	1 80	0 0 08		©4F≪ 0263 ©4F≪	\$10	641-6c267		
				(§)—	④ └③ j		40 ° 4 <u>-4</u>	L30I H	RV 502	328	9		C262		- 0-1}-0c268		
						% o±1€	C328	T3		9 0			C261	51	0-HF≥ c3ea		
		F				9	1000000	000000000	0327	1	MILES AND THE PROPERTY OF THE		€260 ©-11- €260 ©-11-	7-15	o-H € € 262		
							103	01		233	9		C259	1 /4 Bassa			
							15 10	5 n	LPF	301 L PF	302	o	€258	20	J 041—00253		
		-					CF304		F303 L C312 F1	-010			04F 0256 04F		0	6	
							HIP)	O'utio	H-0	0	ها ا			78.52 B		20 E	
		G					9-W-0 ∰0-1(-0	130L _ 92 } =	IPI OH	C343 (344	41 -		∘∓l€		37	1 2 2	
						C	35 6-1-9	4 5 5 2	o² o _≠	R335 R336	0307	R327	0N201			W-0	
							0	المال المال	C314 0-W	0 0 0 o	K. 9	9	1000	67 62	20. 0	CNJI31	
		H				R325 C324	0-W-0 0-W-0	0 C316 0 H	C315	6 A 833	0 0	0	20 0		0.0	12 130	
						R325 C324 D309; C1S C323 R324	EXC D309	EPT 0-1€-0	C313	0309	O MA			o _∓ €-	6 6 0	0	
						R324 (-W-0 U3U9	ollo ca	10	2 € 0 G325 C325 C					0 0	0	
		H				0	0 0 W 0	33.20	705	7		1000	0		(0)	(0)	TO MAIN BOARD (CNPI31)
						1	1 1 1	1 2 8 2 0306		0				A Control		0)	MAIN BOARD (CNPI31)
						Ī	1 7 27	1 2 3 3 3	D392	9.019	23528					20	(See Page
						188						9:CIS				1/1/37	
							MA		EXCEPT 309:015		The state of the s	in Hilliani			9	area and a second	/Cc= D=
						The state of the s			and the second	Jan Janese	C. 7784236236747367	73.0 82.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	21422 224	02290272292.725	V		(See Page
		1,1				. 1			34						D309:CIS		PANEL BOA (CN202)
						-5800	0 0 0			The same of the sa							
		-					130 0 0	0 0 0 0 D39									PANEL BOA (CN601)
							12000	0 0 02	0309:CIS								(See Page
							L		,								
		11				09									1-	-646-982-	21
							TO POLA	R BOARD									
		1 1															

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3-5. SCHEMATIC DIAGRAM

- TUNER SECTION (STR-D309 : G, IT) (STR-D359 : IT)
- See page 41, 42 and 43 for Semiconductor Lead Layouts and IC Block Diagrams.

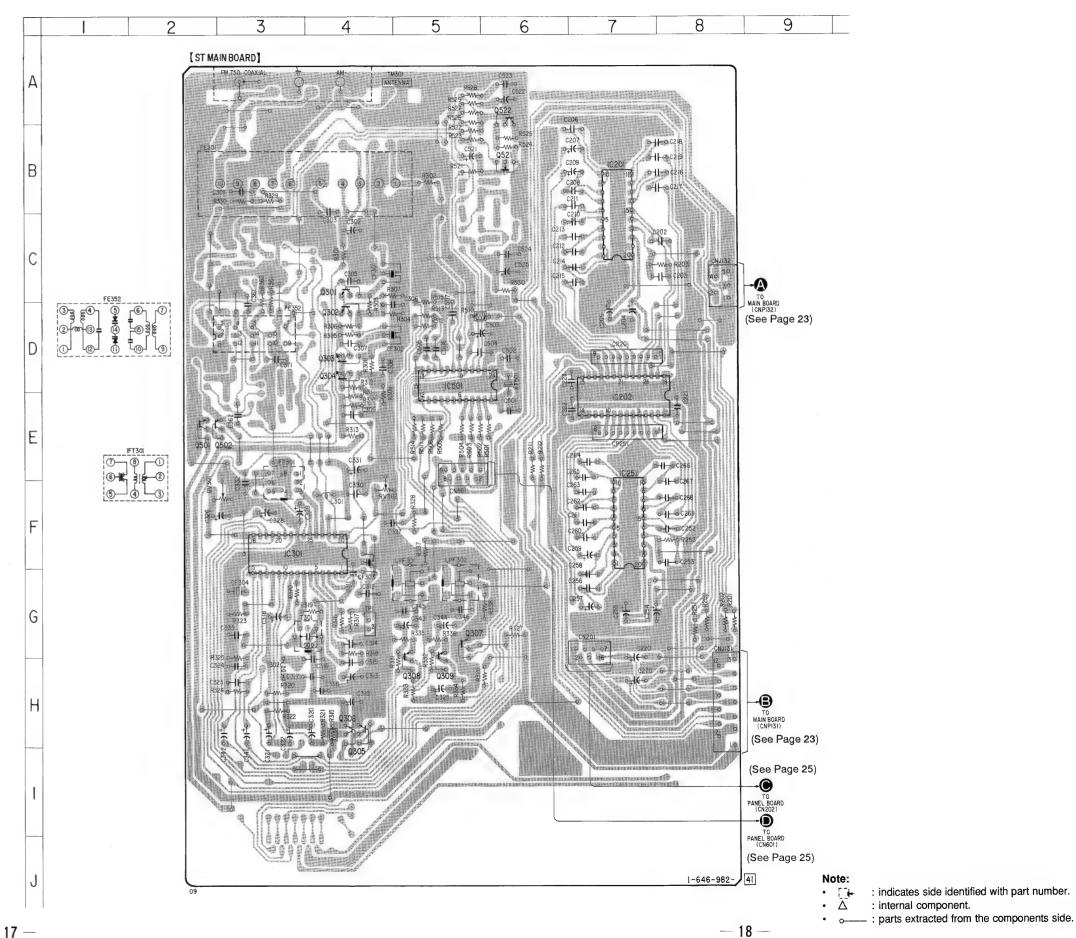


3-6. PRINTED WIRING BOARD

- TUNER SECTION (STR-D309 : G, IT) (STR-D359 : IT)
- · See page 6 for Circuit Boards Location.

SEMICONDUCTOR LOCATION

Ref. No.	Locatio
IC201 IC202 IC251 IC301 IC501 Q303 Q304 Q305 Q306 Q307 Q308 Q309 Q501 Q502 Q521	C-7 E-7 F-7 F-3 D-5 D-4 D-4 H-4 H-4 G-5 H-5 E-2 E-3 B-6
Q522	A-6



3-7. SCHEMATIC DIAGRAM

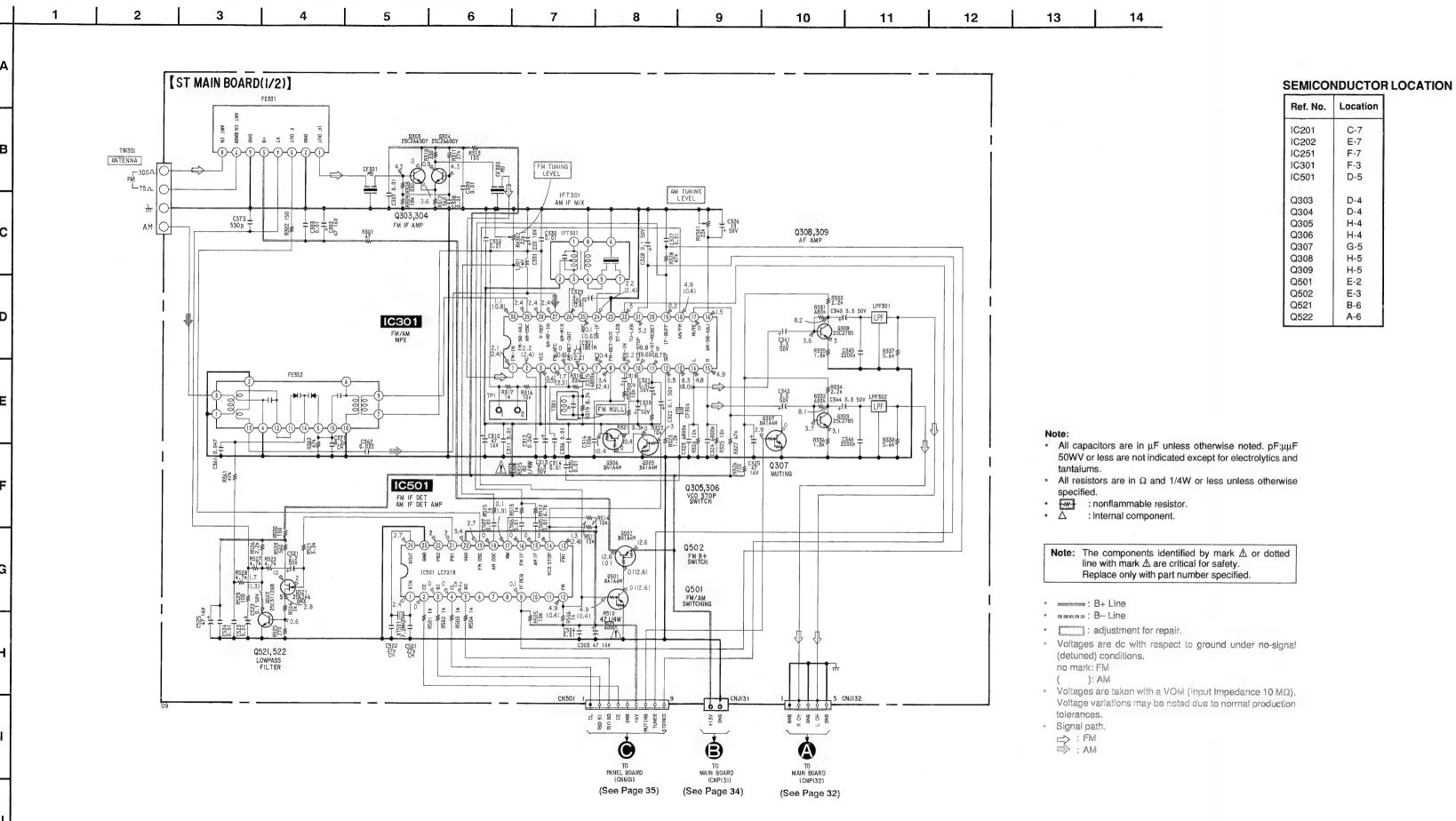
• TUNER SECTION (STR-A37)

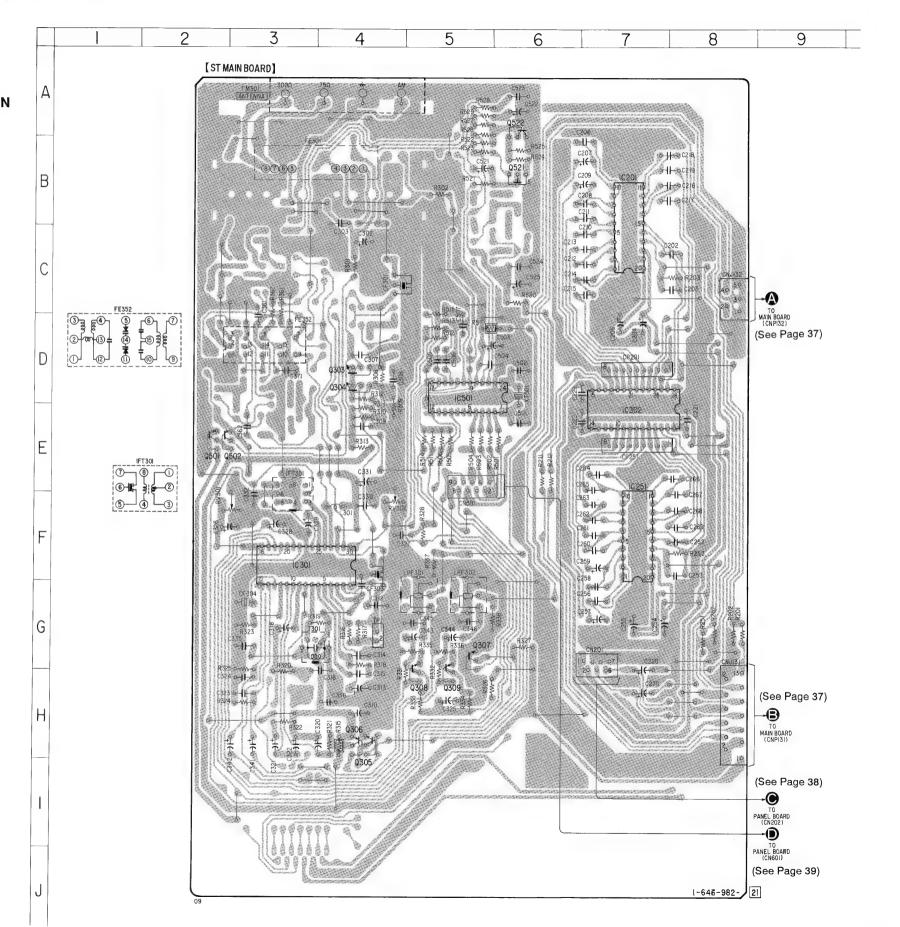
• See page 41, 42 and 43 for Semiconductor Lead Layouts and IC Block Diagrams.

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3-8. PRINTED WIRING BOARD

- TUNER SECTION (STR-A37)
- · See page 6 for Circuit Boards Location.





- 22 -

- : indicates side identified with part number. : internal component.
- o——: parts extracted from the components side.

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SEMICONDUCTOR LOCATION

3-9. PRINTED WIRING BOARD
• MAIN SECTION (STR-D309/D359)

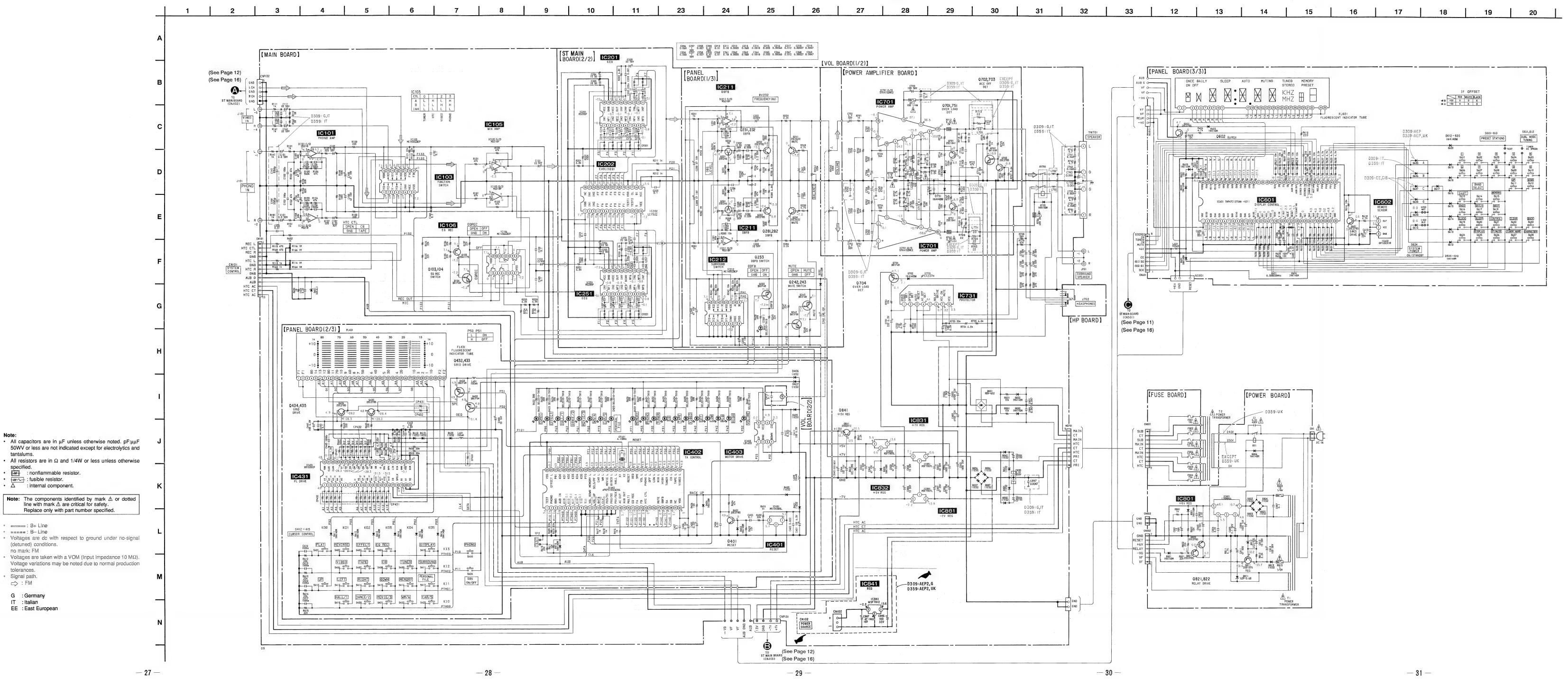
	SEMICO	NDUCTOF	LOCAT	ION
	Ref. No.	Location	Ref. No.	Location
	D231	H-17	D806	I-28
	D232	J-17	D811	H-27
	D281	H-18	D812	I-27
	D401	E-24	D813	K-27
	D402	E-25	D821	H-27
	D403	F-24	D831	E-7
	D404	E-24	D832	F-8
	D405	F-17	D836	G-6
	D406	F-19	D837	F-6
	D407	H-21	D838	G-5
	D410	E-25	D841	G-6
	D411	G-19	D842	G-6
	D412	1-22	D843	I-3
	D413	1-22	D882	F-8
	D414	1-22	D886	F-6
	D415	1-23	D887	F-6
	D416	G-19	D891	G-6
	D418	G-21	D892	G-6
	D419	G-20		~ ~
	D419	G-19	IC101	C-2
			IC101	
	D422	F-15		E-3
	D423	F-16	IC105	G-3
	D424	E-16	IC106	H-3
	D425	E-15	IC211	G-16
	D426	E-15	IC212	J-19
	D427	E-14	IC401	E-25
	D428	E-13	IC402	G-23
	D429	F-14	IC403	F-17
	D430	F-15	IC431	E-21
	D431	H-19	IC601	C-20
	D431	H-20	IC602	H-26
	D432	H-21	IC701	H-11
	4			1
	D434	H-22	IC731	D-8
	D435	H-23	IC801	I-27
	D436	G-23	IC831	F-4
	D437	G-22	IC832	G-4
	D438	G-21	IC881	E-4
	D439	G-20		
	D440	G-15	Q103	H-3
	D441	H-17	Q104	H-3
	D451	A-5	Q231	H-18
	D600	D-24	Q232	I-16
	D601	D-24	Q233	J-16
	D602	D-23	Q241	H-13
	D603	C-22	Q242	I-14
	D603	D-20	Q243	1-14
		D-20	Q243 Q281	H-18
	D605 D606		Q281	1
		D-19	1	I-18
	D607	D-19	Q291	H-14
	D608	D-19	Q401	E-25
	D609	D-18	Q432	E-22
	D610	D-18	Q433	E-22
	D612	C-17	Q434	E-20
	D613	C-24	Q435	E-19
	D614	C-24	Q601	E-26
	D615	D-17	Q602	D-25
	D616	D-18	Q701	I-9
	D617	D-18	Q702	I-12
	D619	C-16	Q703	J-12
ndicates side identified with part number.	D620	B-15	Q704	D-7
	D701	I-10	Q751	I-12
ernal component.		D-7	Q811	1-12
rts extracted from the components side.	D702			
ermany	D703	C-8	Q821	H-28
lian	D751	I-12	Q822	H-28
t European	D801	H-27	Q841	1-4
	D802	K-27		
	D803	K-27		
	D804	J-27		
	D805	J-27		

Ref. No.	Location Ref. N	No. Location		• See page 6 for Circuit Boards Location.	
D231 D232 D281 D401	H-17 D806 J-17 D811 H-18 D812 E-24 D813	H-27 1-27 K-27		2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	
D402	E-25 D821 F-24 D831 E-24 D832 F-17 D836 F-19 D837 H-21 D838 E-25 D841 G-19 D842 I-22 D886 I-23 D887 G-19 D892 G-20 G-19 IC101 E-15 IC212 E-16 IC106 E-15 IC212 E-14 IC401 E-13 IC402 IC701 H-22 IC701 H-20 IC602 H-21 IC701 H-20 IC602 H-21 IC701 H-22 IC701 H-22 IC701 H-23 IC800 G-23 IC800 G-23 IC800 G-24 IC800 G-25 IC800 I	H-27 E-7 F-8 G-6 F-6 G-6 I-3 F-6 G-6 I-3 F-6 G-6 I-3 F-6 G-6 I-3 G-16 I-2 I-2 I-2 I-1 I-1 I-1 I-1 I-1 I-1 I-1 I-1 I-1 I-1	A B C D E F G H I J K	Total Section Sectio	

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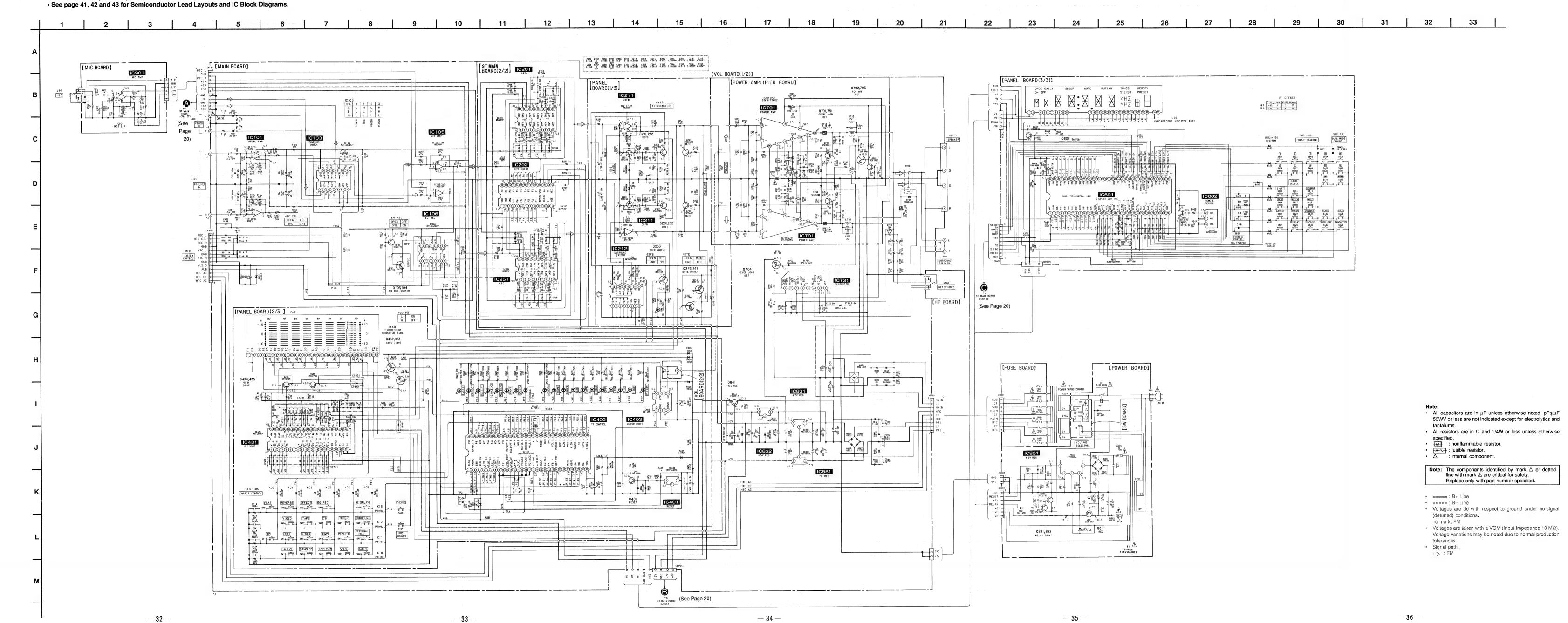
3-10. SCHEMATIC DIAGRAM
MAIN SECTION (STR-D309/D359)
See page 41, 42 and 43 for Semiconductor Lead Layouts and IC Block Diagrams.





3-11. SCHEMATIC DIAGRAM

• MAIN SECTION (STR-A37)



SEMICONDUCTOR LOCATION

3-12. PRINTED WIRING BOARD
• MAIN SECTION (STR-A37)

I

• [: indicates side identified with part number.

• See page 6 for Circuit Boards Location.

- 38 -

D231 D232 D281 D401 D402 D403 D404 D405 D406 D407 D410 D411 D412 D413 I-28 H-27 J-27 K-27 H-27 E-7 F-8 G-6 G-6 I-3 F-8 F-6 F-6 D811 D812 D813 29 30 D821
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D805 IC101 IC103 IC105 IC106 IC211 C-2 E-3 G-3 H-3 G-16 J-19 E-25 G-23 F-17 E-21 C-20 H-26 H-11 D-8 I-28 A-4 G-4 E-4 6 7 8 9 10 11 12 13 14 IC212 IC401 IC402 IC403 IC431 IC601 IC602 IC701 IC731 IC801 IC831 IC832 IC881 IC901 T 2 POWER TRANSFORMER . 22 1008 CT to 12 150000100001 D-11 H-3 H-3 H-18 I-16 Q103 Q104 Q231 Q232 Q233 Q241 Q242 Q243 Q281 Q281 Q401 Q401 Q432 Q433 Q434 Q435 Q601 Q602 Q701 Q702 Q703 Q704 Q751 Q811 Q821 Q822 Q841 ST MAIN BOARI J-16 H-13 I-14 (See Page 22) [POWER BOARD] I-14 H-18 I-18 H-14 E-25 E-22 E-20 E-19 E-26 D-25 I-9 I-12 J-12 D-7 I-12 I-27 H-28 [POWER AMPLIFIER BOARD] H-28 I-4

3-13. SEMICONDUCTOR LEAD LAYOUTS

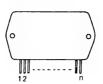
AN6291 M5F78M05L M5F78M07L



LC7522 LC7522K



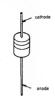
STK-4152MK2K STK-4172MK2K



2SC1841-PAFAEA 2SC3112-B



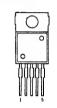
HZS6A1L UZL-33L 11ES2



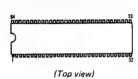
GP1U50XB



L78MR06



TMP47C1270AN-H211 uPD75104CW-286



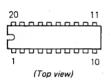
2SC2603-EF 2SC2669-0Y 2SC3622A-LK DTA114ES DTC114ES DTC124ES



SEL2210S-CD SEL3210S-CD



IR3R42 M5289P



MC14052BCP MC14053BCP



uPC1237HA



2SK246-GR3 2SK246-Y



LA1851N

LB1639 M5218AP



MC14066BCP

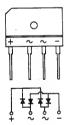


XR-1095

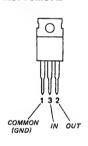


(Top view)

RBV-602-01

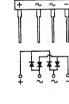


M5F79M07L

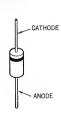


DTA124ES 2SA1175-HFE 2SC2785-HFE





1N4148M UZL-12M3 UZP-5.6B



M51943BSL



2SB1094-LK 2SD2012



LC7218

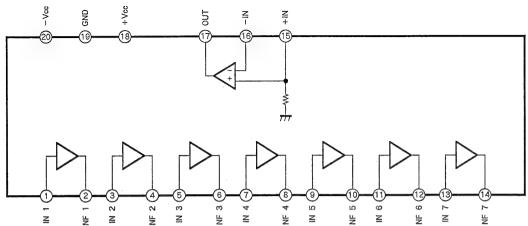


1 2 3 4

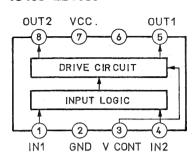
(Top view)

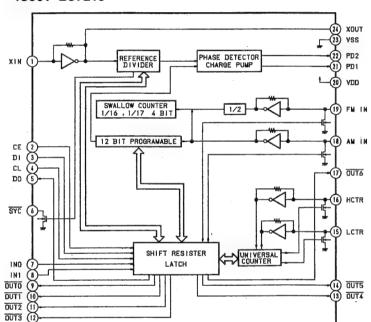
3-14. IC BLOCK DIAGRAMS

· IC201, 251 M5289P

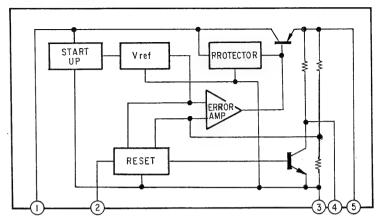


• IC403 LB1639

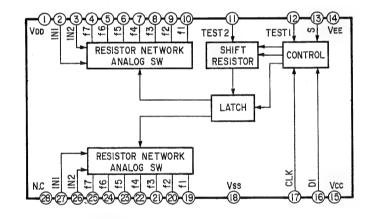




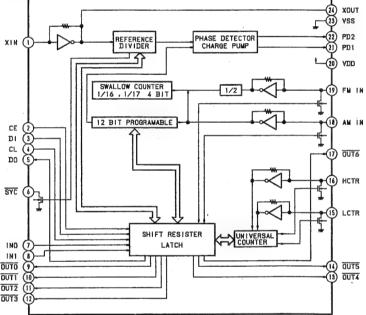
• IC801 L78MR06



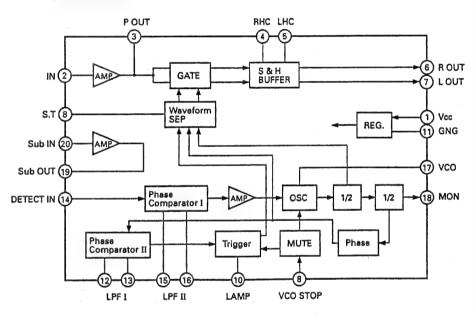
• IC202 LC7522



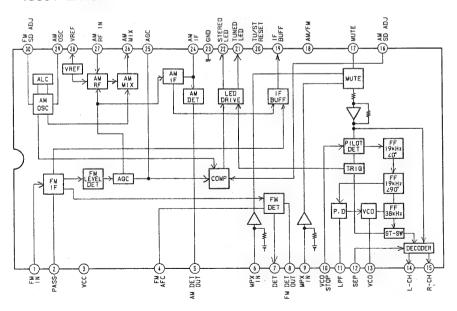
• IC501 LC7218



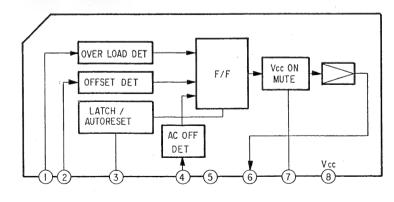
• IC1701 IR3R42



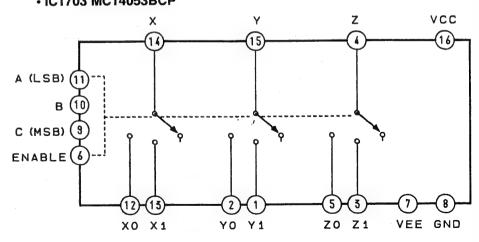
• IC301 LA1851N



• IC731 uPC1237HA



• IC1703 MC14053BCP



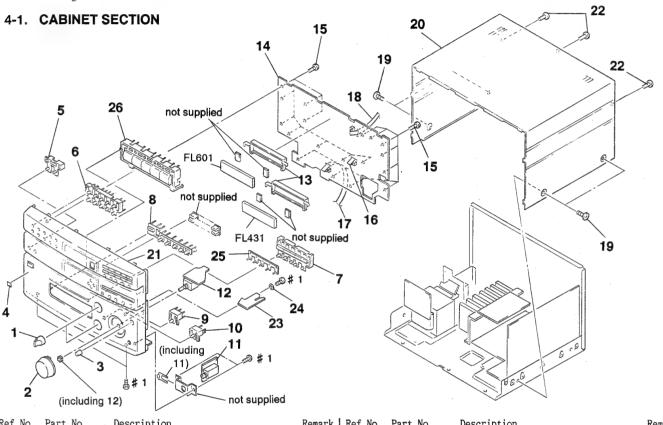
SECTION 4 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:
 - KNOB, BALANCE (WHITE) . . . (RED)

 † †
 Parts color Cabinet's color
- Hardware (# mark) list is given in the last of this parts list.
- G : Germany model
 IT : Italian model
 AUS : Australian model
 EE : East European model

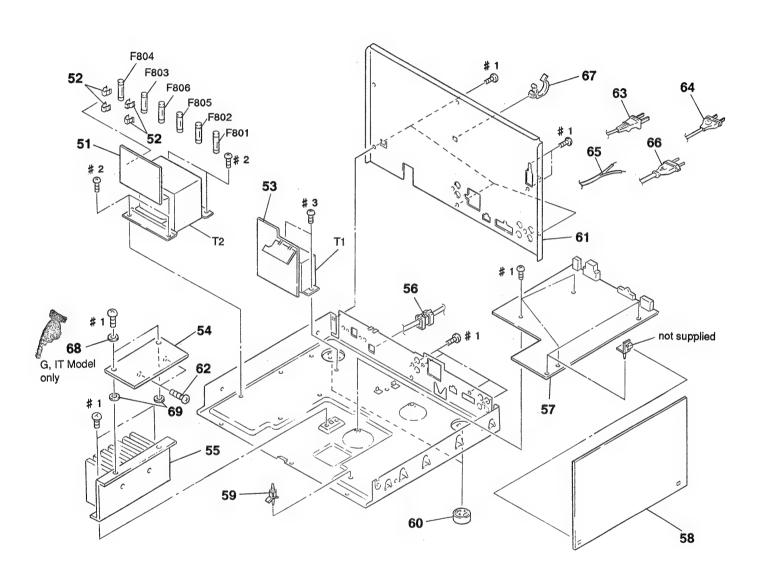
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.



	(
Ref. No.	Part No.	Description	Remark	Re	ef. No.	Part No.	Description	Remark
1		KNOB (DB) (D309)		*	14		PANEL BOARD, COMPLETE (D359:IT)	`
2	4-955-635-01	KNOB (DB) (A37, D359) KNOB (V) (D309)		*	15	A-4360-917-A	PANEL BOARD, COMPLETE (D309:EE, CIS) PANEL BOARD, COMPLETE (D359:UK)	,
3		KNOB (V) (A37, D359) KNOB (BA) (D309)			15 16		SCREW (2.6X8), +BVTP WIRE (FLAT TYPE) (7 CORE)	
* 4 5	3-703-713-41 4-955-741-01 4-955-741-21	KNOB (BA) (A37, D359) STICKER, SONY SYMBOL (10) BUTTON (PR) (D309) BUTTON (PR) (A37, D359) BUTTON (TIMER) (D309)			17 18 19	1-751-025-11 1-751-025-31	WIRE, FLAT TYPE (11 CORE) WIRE (FLAT TYPE) (9 CORE) (A37, D359) WIRE (FLAT TYPE) (9 CORE) (A37, D309, 1) SCREW (CASE) (M3X8) (A37, D309: AEP, G, IT, EE, CIS, D359)	D359)
7		BUTTON (SELECT 5) ASSY (D309)		*	20	4-955-759-11		•
8 9 10	X-4943-304-1 X-4943-303-1 4-955-774-01	BUTTON (SELECT 5) ASSY (A37, D359) BUTTON (DBFB) ASSY (A37, D359) BUTTON (SURROUND) (D309) BUTTON (EFFECT) (D309)			21 22	X-4943-296-1 X-4943-299-1 X-4943-300-1	CASE (A37, D359) PANEL ASSY, FRONT (D309) PANEL ASSY, FRONT (D359) PANEL ASSY, FRONT (A37) SCREW (+BV 3X8) (A37, D359)	
* 11 * 12 * 13	1-646-977-21 1-646-978-11 1-646-978-21	HP BOARD (D309) HP BOARD (A37, D359) VOL BOARD (D309) VOL BOARD (A37, D359) HOLDER, FL TUBE		*	23 24 25 26	1-646-980-21 3-330-034-01 3-564-542-00 4-955-771-01	MIC BOARD (A37) WASHER (A37, D359) WASHER, FIBER (D309:AEP, G, IT, EE, CI: INDICATOR (SELECT 5) (D309) BUTTON (FU) ASSY (D309)	S)
* 14 * * * *	A-4356-977-A A-4356-995-A A-4360-124-A	PANEL BOARD, COMPLETE (D309:AEP) PANEL BOARD, COMPLETE (D359:AEP) PANEL BOARD, COMPLETE (A37:E, AUS, PX PANEL BOARD, COMPLETE (D309:G) PANEL BOARD, COMPLETE (D309:IT)	()		FL431	1-519-648-21	INDICATOR TUBE, FLUORESCENT INDICATOR TUBE, FLUORESCENT	



4-2. CHASSIS SECTION





Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description			Remark
* 51 * 52 * 53	1-646-972-21 1-533-217-31 1-533-213-11	FUSE BOARD (D309) FUSE BOARD (D359) HOLDER, FUSE (D309) HOLDER, FUSE (A37/D359) POWER BOARD, COMPLETE	9: AEP, G, IT, EE, CIS)	↑F803 ↑F804 ↑F805 ↑F806 ↑T1	1-532-299-00 1-532-299-00 1-532-286-00 1-532-286-00 1-423-646-21	FUSE (5A) FUSE (2.5A)	POWER	(D359)	
* * * * 54	A-4356-993-A A-4360-002-A	POWER BOARD, COMPLETE (DA POWER BOARD, COMPLETE (DA POWER BOARD, COMPLETE (A POWER AMPLIFIER BOARD, COMPLETE (DA POWER AMPLIFIER BOARD) (DA POWER BOARD) (0359:AEP, IT) 0359:UK) 037)	↑ ↑ ↑ ↑ ↑ ↑	1-423-647-21 1-423-499-11 1-423-499-21	TRANSFORMER, TRANSFORMER, TRANSFORMER, TRANSFORMER, TRANSFORMER,	POWER POWER POWER	(A37) (D309) (D359)	
*		POWER AMPLIFIER BOARD, C	COMPLETE (D359:AEP)						
* * *	A-4360-001-A	A POWER AMPLIFIER BOARD, C A POWER AMPLIFIER BOARD, C A POWER AMPLIFIER BOARD, C	COMPLETE (A37)						
* * 55		POWER AMPLIFIER BOARD, C HEAT SINK (L3-E) (D309:A	COMPLETE (D359:IT)						
* 56 * 57 *	3-703-571-11 A-4356-904-A A-4356-985-A	BUSHING (2104), CORD (A3 BUSHING (S)(4516), CORD MAIN BOARD, COMPLETE (D3 MAIN BOARD, COMPLETE (D3 MAIN BOARD, COMPLETE (D3	(A37:E, PX) 809:AEP) 859:AEP)						
* * * *	A-4360-131-A A-4360-177-A A-4360-185-A	A MAIN BOARD, COMPLETE (A3 MAIN BOARD, COMPLETE (D3 MAIN BOARD, COMPLETE (D3 MAIN BOARD, COMPLETE (D3 MAIN BOARD, COMPLETE (D3	09:G) 09:AEP, EE, CIS) 09:IT)						
* * 58 * *	A-4356-901-A A-4356-982-A A-4356-989-A	MAIN BOARD, COMPLETE (D3 A ST MAIN BOARD, COMPLETE A ST MAIN BOARD, COMPLETE A ST MAIN BOARD, COMPLETE A ST MAIN BOARD, COMPLETE	(D309:AEP) (D359:AEP)						
* * * * *	A-4360-503-A A-4360-814-A A-4360-817-A	A ST MAIN BOARD, COMPLETE A ST MAIN BOARD, COMPLETE A ST MAIN BOARD, COMPLETE A ST MAIN BOARD, COMPLETE HOLDER, PC BOARD	(D359:IT) (D309:EE)						
60 * 61 *	X-4941-228-1 4-955-769-11 4-955-769-21	FOOT (A37, D359) FOOT ASSY (D309) PANEL, BACK (D309:AEP) PANEL, BACK (D309:CIS) PANEL, BACK (D309:IT)							
* * * *	4-955-769-51 4-955-769-61 4-955-769-71	PANEL, BACK (D309:G) PANEL, BACK (D309:AEP) PANEL, BACK (D309:AEP) PANEL, BACK (D309:EE) PANEL, BACK (D359:AEP)							
* * * *	4-955-828-31 4-955-828-51 4-955-828-61	PANEL, BACK (D359:UK) PANEL, BACK (D359:IT) PANEL, BACK (D359:AEP) PANEL, BACK (A37:E, PX) PANEL, BACK (A37:AUS)							
62 ^63 ^64 ^65 ^66	1-575-653-11 1-690-608-11 1-696-570-21	SCREW, +BV (2. 6X16) TAPF CORD, POWER (A37:E, PX) CORD, POWER (A37:AUS) CORD, POWER (D359:UK) CORD, POWER (D309:AEP, G, IT, E	PING EE, CIS/D359:AEP, IT)						
67 68 69 <u>1</u> F801 <u>1</u> F802	4-956-370-02 4-960-342-21 4-960-342-31 1-532-078-00 1-532-078-00	Z BAND, PLUG FIXED (A37:AL WASHER (HEAT SINK) (G, 17 WASHER (HEAT SINK) FUSE (1A) FUSE (1A)	JS)					nents identified by	



SECTION 5 ELECTRICAL PARTS LIST

FUSE HP MAIN

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board name

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms
 METAL: Metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor
 F: nonflammable
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) . . . (RED)

Parts color

Cabinet's color

 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. • SEMICONDUCTORS
In each case, u: μ, for example:
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...

- CAPACITORS uF: μF
- COILS uH : μH
- Hardware (# mark) list is given in the last of this parts list.
- G : Germany modelIT : Italian modelEE : East European model
- CIS : Common Independent States model
- AUS: Australian model
 AEP1: AEP with out POWER SOURCE

AEP2: AEP with POWER SOURCE Description Part No. Ref. No. Part No. Description Remark Ref. No. 1-646-972-11 FUSE BOARD (D309) < CAPACITOR > ******* 2. 2uF 20% 100V C101 1-124-925-11 ELECT 1-646-972-21 FUSE BOARD (D359) C102 1-164-073-11 CERAMIC 100PF 10% 50V 1-164-066-11 CERAMIC 68PF C103 5% 50V ****** 1-124-126-00 ELECT C104 4711F 20% 107 1-646-975-21 FUSE BOARD (A37) C105 1-161-377-00 CERAMIC 0.0047uF 30% 167 ****** 1-161-374-11 CERAMIC 0.0015uF 50V C106 20% < CONNECTOR > C107 1-124-464-11 ELECT 0. 22uF 20% 50V C108 1-124-126-00 ELECT 47uF 20% 10V * CN801 1-564-512-11 PLUG, CONNECTOR 9P C111 1-124-916-11 ELECT 22uF 20% 63V C131 1-124-907-11 ELECT 10uF 20% 50V ***************** C132 1-164-159-11 CERAMIC 0. 1uF 50V 1-646-977-11 HP BOARD (D309) C133 1-164-159-11 CERAMIC 0. 1uF 50V ****** C141 1-162-286-31 CERAMIC 220PF 10% 50V (D309:G, IT/D359:IT) 1-646-977-21 HP BOARD (A37/D359) C142 1-162-286-31 CERAMIC 220PF 10% 50V (D309:G, IT/D359:IT) ****** 1-124-925-11 ELECT 2. 2uF C151 20% 100V < JACK > C152 1-164-073-11 CERAMIC 100PF 10% 50V * J702 1-691-003-11 JACK, LARGE TYPE (HEADPHONES) 1-164-066-11 CERAMIC 68PF C153 5% 50V C154 1-124-126-00 ELECT 47uF 20% 10V ******************************** 1-161-377-00 CERAMIC 0.0047uF 30% C155 16V C156 1-161-374-11 CERAMIC 0.0015uF 20% 50V A-4356-904-A MAIN BOARD, COMPLETE (D309:AEP2) ********* 1-124-464-11 ELECT 0. 22uF 20% 50V C157 1-124-126-00 ELECT C158 47uF 20% 107 A-4356-985-A MAIN BOARD, COMPLETE (D359:AEP2) 1-124-916-11 ELECT 22uF 20% C161 63V ********* C181 1-124-907-11 ELECT 10uF 20% 50V C182 1-164-159-11 CERAMIC 0. 1uF 50V A-4360-000-A MAIN BOARD, COMPLETE (A37) ********* 1-164-159-11 CERAMIC 0. 1uF C183 50V 1-162-286-31 CERAMIC 220PF 50V C191 10% A-4360-131-A MAIN BOARD, COMPLETE (D309:G) (D309:G, IT/D359:IT) ********* 220PF C192 1-162-286-31 CERAMIC 10% 50V (D309:G, IT/D359:IT) A-4360-177-A MAIN BOARD, COMPLETE (D309:AEP1, EE, CIS) C431 1-161-379-00 CERAMIC 0.01uF 20% 25V ********** C432 1-161-379-00 CERAMIC 0.01uF 20% 25V A-4360-185-A MAIN BOARD, COMPLETE (D309:IT) C731 1-126-176-11 ELECT 220uF 20% 10V *********** C732 1-126-176-11 ELECT 220uF 20% 10V C733 1-124-443-00 ELECT 100uF 20% 10V A-4360-505-A MAIN BOARD, COMPLETE (D359:IT) 22uF C734 1-124-916-11 ELECT 20% 63V ********* 1-124-916-11 ELECT C735 22uF 20% 63V A-4360-991-A MAIN BOARD, COMPLETE (D359:UK) C741 1-136-163-00 FILM 0.068uF 5% 50V ********** (D309:G, IT/D359:IT)



MAIN

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Descr	iption			Remark
C742	1-136-163-00	FILM	0. 068uF	5% :G, IT/D3	50V	`	1	1-568-955-11			, ,		
C743	1-162-294-31	CERAMIC	0. 001uF	10% :G, IT/D	50V			1-568-830-11 1-564-510-11					
C784	1-124-916-11	ELECT	22uF	20%	63V	,	* CN702	1-568-954-11	PIN	CONNECTOR	5P		
C785	1-124-916-11		22uF	20%	63V			1 1-695-090-11				13P	
0100	1 101 010 11	22201	DUGE	2070	001			2 1-750-180-11					
C791	1-136-163-00	FILM	0. 068uF (D309	5% :G, IT/D3	50V 359:IT)		7 1 100 100 11		DDE >	(I C DOMAD)	01	
C792	1-136-163-00	FILM	0.068uF	5% :G, IT/D3	50V		D451	8-719-933-33			L		
C793	1-162-294-31	CERAMIC	0.001uF	10% :G, IT/D3	50V		D702 D703	8-719-987-63 8-719-987-63	DIODI	E 1N4148	M		
C831	1-136-161-00	FILM	0. 047uF	5%	507		D831	8-719-302-38					
C833	1-126-138-11	ELECT	4700uF	20%	50V		D832	8-719-987-63					
					(A37))	D836	8-719-200-82			•		
C833	1-126-224-11	ELECT	4700uF	20%	42V		D837	8-719-200-82					
				(D309), D359))	D838	8-719-987-63	DIODI	E 1N4148	M		
C834	1-124-903-11	ELECT	luF	20%	50V		D841	8-719-200-82	DIODI				
C835	1-102-394-11	CERAMIC	0. 01uF		250V		D842	8-719-200-82					
C836	1-124-557-11	ELECT	1000uF	20%	25V								
C837	1-124-907-11	ELECT	10uF	20%	50V		D843	8-719-001-76	DIODI	E UZL-12	м3		
							D882	8-719-987-63					
C838	1-124-907-11	ELECT	10uF	20%	50V		D886	8-719-200-82					
C839	1-124-477-11	ELECT	47uF	20%	25V		D887	8-719-200-82	DIODI	11ES2			
C840	1-124-477-11	ELECT	47uF	20%	25V (A37)) .	D891	8-719-200-82	DIODI	11ES2			
C840	1-124-126-00	ELECT	47uF	20% (D309	10V 3/D359))	D892	8-719-200-82	DIODI	E 11ES2			
C841	1-124-907-11	ELECT	10uF	20%	50V				< IC	>			
C842	1-124-122-11	ELECT	100uF	20%	50 V		IC101	8-759-634-51	IC	M5218AP			
C843	1-126-105-11		1000uF	20%	35V		IC103	8-759-000-48	IC	MC14052BC	P		
C844	1-126-101-11		100uF	20%	16V		IC105	8-759-634-51	IC	M5218AP			
C845	1-126-101-11		100uF	20%	16V			8-759-000-49		MC14066BCI	P		
C846	1-124-122-11		100uF D309:AEP2,	20% G/D359:	50V 4	JK)		8-759-111-68		uPC1237HA			
00.47	1 104 477 11	DI DOT	ATT CATE	200	25V 💰			8-759-605-00		M5F78M07L			
C847	1-124-477-11	ELECI	47uF					8-759-604-35		M5F78M05L			
C0 17	1-124-910-11	DIDOT	47E	(D359:A	50V	n)	1C841	8-759-604-39	IC	AN6291		6	
C847	1-124-910-11	ELECI	47uF		: AEP2, (C)	10001	0 750 004 05	**	((D3	809:AEP2, G/I)359:AEP2	2, UK)
C881	1-136-161-00	FILM	0. 047uF	5%	50V	u)	10881	8-759-604-95		M5F79M07L			
C883	1-126-138-11	ELECT	4700uF	20%	50V				< JA(ж >			
					(A37))	± 7101	1_500_019_11	TACV	DIN 4D /	DIIONO (WIDEO	TAT	
C883	1-126-224-11	ELECT	4700uF	20%	42V		* J101	1-580-912-11	JACK,	PIN 4P (1	PHONO/ VIDEO	•	
C886	1-124-480-11	ELECT	470uF	(D309 20%)/D359) 25V)	* J101	1-580-912-21	JACK,	PIN 4P (I			
							* J701	1-569-130-11	IACV	א מפ ואזם		137/D359)	,
C887	1-124-477-11		47uF	20%	25V		* 2101	1-303-130-11	JACA,	TIN AT (SOUTHOUSE SET	SAKEK)	
C888	1-124-907-11		10uF	20%	507				< CO1	T \			
C892	1-124-122-11		100uF	20%	507				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	.ь /			
C897	1-161-377-00	CERAMIC		30% :G, IT/D3	25V 359:IT))	L702 L752	1-420-872-00 1-420-872-00					
		< CONNECTOR	: >					2.2 00		INSISTOR >	(2000,0,11)	_ 555,11)	•
↓ CN1101	1-565-291-11	SUCKET COX	NECTOR 121	Þ									
* CNIUI	1-202-721-11	SUCREI, CUI		r YSTEM CO	NTROI .)	Q103	8-729-119-76	TRANS	SISTOR 25	SA1175-HFE		
* CN102	1-566-210-11	PIN. CONNEC				,							
* 011100	2 000 210 11		(D309:AEP2			IIK)							
			(~000 +11D1 B	, 0, 2000		U11/							
	4	The second											



R733 1-249-436-11 CARBON 1-249-437-11 CARBON 39K 5% 1/4W (EXCEPT D359: AEP1) 5% 1/4\(\forall \) 47K 5% (D359:AEP1)



				/ .					(D359:A	EP1)			
Ref. No.	Part No.	Description			\	Remark	Ref. No.	Part No.	Description				Remark
Q104 Q704	8-729-900-36 8-729-900-63		DTC1 DTA1				R204 R205	1-249-421-11 1-249-427-11		2. 2K 6. 8K		1/4W 1/4W	
Q841	8-729-209-15		2SD2										
		< RESISTOR	,				R254 R255	1-249-421-11 1-249-427-11		2. 2K 6. 8K		1/4W 1/4W	
		/ NESISION	/				R431	1-249-393-11		10	5%	1/4W	
R101	1-249-417-11	CARBON	1K	5%	1/4W		R432	1-249-417-11		1K	5%	1/4W	
R102	1-249-437-11		47K	5%	1/4W		R728	1-249-438-11		56K	5%	1/4W	
R104	1-249-416-11		820	5%	1/4W		11120	1 510 100 11	O'MIDO''	0011	0,0	-,	
R105	1-247-897-11		560K		1/4W		R731	1-249-429-11	CARBON	10K	5%	1/4W	
R106	1-249-437-11	CARBON	47K	5%	1/4₩		R732	1-249-441-11	CARBON	100K	5%	1/4W	
						4	R733	1-249 436 11	CARBON	39K	5%	1/4W	
R107	1-249-409-11	CARBON	220	5%	1/4₩		R734	1-249-427-11	CARBON	6.8K	5%	1/4W	
R108	1-249-441-11	CARBON	100K	5%	1/4W		R735	1-249-427-11	CARBON	6.8K	5%	1/4W	
R109	1-249-409-11		220	5%	1/4W	A.33							
	1-249-417-11		1K	5%	1/4W		 ♠R736	1-215-891-11			5%		F
R112	1-247-903-00	CARBON	1M	5%	1/4W		R737	1-249-410-11		270	5%	1/4W	
							R738	1-249-410-11	CARBON	270	5%	1/4W	
R113	1-249-417-11		1K	5%	1/4W		D7.41	1 040 000 11	GIPPON	4 77	- 0/	1 / 480	
R114	1-247-903-00		1M	5%	1/4W		R741	1-249-389-11	CARBON	4.7		1/4₩). TT\
	1-249-413-11		470	5% 5%	1/4W		R742	1-249-389-11	CADDON	4.7	309:G, 5%	1/4W);11)
R121	1-247-903-00		1M 22K	5% 5%	1/4W 1/4W		K142	1-249-369-11	CARBON		309:G,		1.IT)
K121	1-249-455-11	CARDON	22N	3 <i>7</i> 6	1/4#					(L	,309:0,		1.11)
R122	1-249-433-11		22K	5%	1/4W		R778	1-249-437-11		47K	5%	1/4W	
R123	1-249-433-11		22K	5%	1/4W		R787	1-249-410-11		270	5%	1/4W	
	1-249-433-11		22K	5%	1/4W		R788	1-249-410-11		270	5%	1/4W	
R131	1-249-437-11		47K	5%	1/4W		R791	1-249-389-11	CARBON	4.7	5%	1/4W	>
R132	1-249-437-11	CARBON	47K	5%	1/4W	(A37)	7500		CARRON		309:G,		3:1T)
D100	1 040 407 11	CADDON	4777	E0/	1 / 497		R792	1-249-389-11	CARBON	4.7		1/4W) . TT\
R133	1-249-437-11		47K	5% 5%	1/4W					(L)309:G,	11/0358):11)
R135 R136	1-249-433-11 1-249-433-11		22K 22K	5% 5%	1/4W 1/4W		R831	1-249-429-11	CADDON	10K	5%	1/4W	
R137	1-249-433-11		22K 22K	5%	1/4W		R841	1-249-421-11		2. 2K		1/4W	
R141	1-249-417-11		1K	5%	1/4W		R881	1-249-429-11		10K	5%	1/4W	
****	1 010 11, 11	0.11.1501.			IT/D359	9:I T)		1 110 110 11			0.0	_,	
									< RELAY >				
R151	1-249-417-11		1K	5%	1/4₩								
R152	1-249-437-11		47K	5%	1/4W		RY701	1-515-533-11	RELAY				
R154	1-249-416-11		820	5%	1/4W				(TOPHINI				
R155	1-247-897-11 1-249-437-11		560K		1/4W				< TERMINAL	>			
0617	1-249-457-11	CARDON	47K	Đ76	1/4W		TM701	1-537-481-11	TERMINAL BO	ARD (S	SPEAKER)	
R157	1-249-409-11	CARBON	220	5%	1/4W						309:G, I		IT)
R158	1-249-441-11	CARBON	100K	5%	1/4W		TM701	1-537-494-11	TERMINAL BO	ARD (S	SPEAKER)	
R159	1-249-409-11	CARBON	220	5%	1/4W				(A37/D309:A	EP, EE,	CIS/D3	59:AEP,	UK)
R161	1-249-417-11		1K	5%	1/4W								
R162	1-247-903-00	CARBON	1M	5%	1/4W		******	*********	******	*****	*****	******	*******
R163	1-249-417-11		1K	5%	1/4W		*	1-646-980-21					
R164	1-247-903-00		1M	5%	1/4W				******	****			
R165	1-249-413-11		470	5%	1/4W								
R166	1-247-903-00		1M	5%	1/4W				< CAPACITOR	>			
R181	1-249-437-11	CAKBON	47K	5%	1/4W		C001	1 194 005 11	DIECT O	200	200	1007	
R182	1-249-437-11	CADDOM	47V	E0/	1 / AW	(127)	C901	1-124-925-11 1-162-294-31		2uF	20%	100V	
R183	1-249-437-11		47K 47K	5% 5%	1/4W ((no1)	C902 C903	1-162-294-31			10% 5%	50V 50V	
R191	1-249-437-11		47K	5% 5%	1/4W 1/4W		C903	1-162-219-31			10%	50V 50V	
1717	1 440 411-11	CUITPOIL			1/4# IT/D359	9·IT)	C904 C905	1-102-204-31		orr 22uF	20%	50V	
			(ν)	,	11,000	,.11/	1	1 141 101 11	<i>LILI</i> 01 0.	Jul	20/0	001	

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

MIC PANEL

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C906 C956	1-124-477-11 1-124-477-11		47uF 47uF	20% 20%	25V 25V		C239 C240	1-124-126-00 1-124-126-00		47uF 47uF	20% 20%	10V 10V	
		< IC >					C241	1-124-903-11		1uF	20%	50V	
10001	0.750.694.51	TO ME01011					C242	1-124-443-00		100uF	20%	10V	
1C901	8-759-634-51	IC M5218AI	,				C281	1-164-066-11		68PF	5%	50V	
		< JACK >					C282 C283	1-164-070-11 1-124-907-11		100PF 10uF	5% 20%	50V 50V	
* J901	1-573-151-21	JACK, LARGE	TYPE (MI	C)			C284 C285	1-124-257-00 1-162-282-31		2. 2uF 100PF	20% 10%	50V 50V	
		< RESISTOR >	>				C287	1-102-262-31		0. 33uF	20%	50V	
							C288	1-136-160-00		0. 039uF	5%	50V	
R901	1-249-429-11		10K 5%	1/4	W		C289	1-124-126-00		47uF	20%	10V	
R902	1-249-417-11		1K 5%										
R903	1-249-441-11		100K 5%				C290	1-124-126-00		47uF	20%	10V	
R904	1-249-412-11		390 5%				C291	1-124-903-11		luF	20%	50 V	
R905	1-249-441-11	CARBON	100K 5%	1/4	₩		C401	1-126-177-11		100uF	20%	10V	
R906	1-249-417-11	CARRON	1K 5%	1/4	w		C402	1-161-494-00		0. 022uF	E0/	25V	
R907	1-249-429-11		10K 5%				C403	1-136-165-00	FILM	0. 1uF	5%	50V	
							C404	1-161-379-00		0.01uF	20%	25V	
*****	*****	******	*******	******	******	*****	C405		DOUBLE LAYERS			5. 5V	
*	A-4356-896-A	DANEI DOADD	COMDI ETI	E (D200	. ARD)		C406	1-126-157-11		10uF	20%	16V	
•	A-4330-690-A	*********		- (, ,		C407 C411	1-164-159-11 1-126-177-11		0. 1uF 100uF	20%	50V	
		444444444444444	*******	****	****		(411	1-120-177-11	ELECI	loour	20%	10V	
*	A-4356-977-A	PANEL BOARD.	COMPLETI	E (D359	: AEP)		C412	1-161-494-00	CERAMIC	0. 022uF		25V	
		*******			,		C414	1-162-294-31			10%	50V	
							C415	1-162-294-31	-		10%	50V	
*	A-4356-995-A	PANEL BOARD,	COMPLETI	E (A37)			C416	1-162-294-31			10%	50V	
		********	******	*****			C417	1-162-294-31	CERAMIC	0.001uF	10%	50V	
*	A-4360-124-A	PANEL BOARD.	COMPLETI	E (D309	:G)		C441	1-126-177-11	ELECT	100uF	20%	10V	
		******	******	*****	***		C442	1-164-159-11		0. 1uF	-0,0	50V	
						- 1	C443	1-126-177-11		100uF	20%	10V	
*	A-4360-183-A	PANEL BOARD,	COMPLETI	E (D309	:IT)	ı	C444	1-164-159-11		0. 1uF		50V	
		******	*******	******	****		C445	1-130-471-00	MYLAR	0.001uF	5%	50V	
*	A-4360-500-A	PANEL BOARD,	COMPLETI	E (D359	:IT)		C446	1-126-163-11	ELECT	4. 7uF	20%	50V	
		********	******	******	***		C447	1-126-163-11		4. 7uF	20%	50V	
				- 4			C448	1-126-157-11		10uF	20%	16V	
*	A-4360-812-A							1-126-177-11		100uF	20%		
		*****	*******	******	******	*	C602	1-164-159-11	CERAMIC	0. 1uF		50V	
*	A-4360-917-A	-			,		C604	1-126-157-11		10uF	20%	16V	
		******	******	******	***		C605	1-124-916-11		22uF	20%	63V	
		(01D107707					C606	1-162-202-31		13PF	5%	50V	
		< CAPACITOR	>				C607	1-162-202-31		13PF	5%	50V	
C221	1_164_066 11	CEDANIC	conn	re/	F017		C608	1-126-163-11	ELECT	4. 7uF	20%	50V	
	1-164-066-11 1-164-070-11		68PF 100PF	5% co/	50V		CCOO	1 100 100 00	DUM	0.01.5	F0/	F.0**	
	1-104-070-11		100Pr 10uF	5% 20%	50V 50V		C609			0. 01uF	5%	50V	
	1-124-257-00		2. 2uF	20%	50V		C610	1-164-159-11	CERAMIC	0. 1uF		50V	
	1-162-282-31		100PF	10%	50V				< FILTER >				
C236	1-164-159-11	CERAMIC	0 100		EOW		CP 401	1 567 775 11	WIDDATOR OFF	MIC (1.1	OMIT >		
	1-104-159-11		0. 1uF 0. 33uF	20%	50V 50V		Cr 401	1-201-112-11	VIBRATOR, CERA	MIC (4.19	emhz)		
	1-136-160-00		0. 039uF		50V								
2200	- 100 100 00		v. vovu	. 5/0	501	1							

PANEL

Ref. No.	Part No.	Descrip	tion	Remark	Ref. No.	Part No.	Description	Remark
		< CONNE	CCTOR >		D600	8-719-987-63	DIODE 1N41	48M
* CNSUS	1560_006_11	COCKET	CONNECTOR 7P		D601	8-719-987-63 8-719-987-63		
			CONNECTOR 11P		D602 D603	8-719-987-63		-
			CONNECTOR 9P		D603	8-719-987-63		
. 0.1001	1 000 000 11	cociii,	COMMECTOR OF		2001	0 110 001 00	D1000 11111	. 100
		< COMPO	OSITION CIRCUIT BLOCK >		D605	8-719-987-63	DIODE 1N41	
CDASI	1_230_054_11	COMPOST	TION CIRCUIT BLOCK		D606	8-719-987-63	DIODE 1MA1	(D309:AEP, D359:AEP, UK) 48M (D309:IT/D359:IT)
			TION CIRCUIT BLOCK		D607	8-719-987-63		48M (D309:EE, CIS)
					D608	8-719-987-63		48M (A37/D309:EE, CIS)
		< DIODE	; >		D609	8-719-987-63	DIODE 1N41	48M
D231	8-719-987-63	DIODE	1N4148M		D610	8-719-987-63	DIODE 1N41	48M
D231	8-719-987-63		1N4148M		D611	8-719-987-63		48M (A37)
D281	8-719-987-63		1N4148M		D612	8-719-987-63		
D401	8-719-200-82		11ES2		D613	8-719-987-63		
D402	8-719-987-63	DIODE	1N4148M		D614	8-719-987-63	DIODE 1N41	48M
D403	8-719-200-82	DIODE	11ES2		D615	8-719-987-63	DIODE 1N41	4 9 M
D403	8-719-987-63		1N4148M		D616	8-719-987-63		
D405	8-719-200-82		11ES2			8-719-987-63		
D406	8-719-200-82		11ES2		D618	8-719-987-63		
D407	8-719-200-82	DIODE	11ES2		D619	8-719-987-63		
D.110	0 710 007 00	DIODE	137.41.4034		5000		D. C. D. C.	404
D410 D411	8-719-987-63 8-719-987-63		1N4148M 1N4148M		D620	8-719-987-63	DIODE 1N41	48M
D411 D412	8-719-987-63		1N4148M				< FI HORESCEN	T INDICATOR >
D412	8-719-987-63		1N4148M				\ TLUOMESCEN	I INDICATOR >
D414	8-719-987-63		1N4148M		FL431	1-519-648-21	INDICATOR TU	BE, FLUORESCENT
								BE, FLUORESCENT
D415	8-719-987-63		1N4148M					
D416	8-719-987-63		1N4148M				< IC >	
D418 D419	8-719-200-82 8-719-200-82		11ES2 11ES2		10011	8-759-634-51	IC M5218AF	
D413 D420	8-719-200-82		11ES2			8-759-000-48		
D120	0 110 200 02	DIODE	11656			8-759-635-63		
D422	8-719-301-37	LED	SEL2210S-CD			8-759-160-26		
D423	8-719-301-37	LED	SEL2210S-CD		IC403	8-759-820-62	IC LB1639	
D424	8-719-301-37		SEL2210S-CD				:	
D425	8-719-301-37		SEL2210S-CD			8-759-065-88		
D426	8-719-301-37	LED	SEL2210S-CD			8-759-157-67		270AN-H211
D427	8-719-301-37	LED	SEL2210S-CD		10002	8-749-922-36	IC GP1U50X	ָם
D428	8-719-301-37		SEL2210S-CD	-			< COIL >	
D429	8-719-301-37	LED	SEL2210S-CD					
D430	8-719-301-37		SEL2210S-CD		L401	1-408-080-00	INDUCTOR 100	uH
D431	8-719-301-37	LED	SEL2210S-CD		L403	1-410-521-11		
D420	0 710 901 97	I ED	CDI 001 0C CD		L451	1-408-080-00		
D432 D433	8-719-301-37 8-719-301-37		SEL2210S-CD SEL2210S-CD		L601	1-410-521-11	INDUCTOR 100	ин
D433	8-719-301-37		SEL2210S-CD				< TRANSISTOR	
D435	8-719-301-37		SEL2210S-CD				\ TRANSISION	
D436	8-719-301-37		SEL2210S-CD		Q231	8-729-224-61	TRANSISTOR	2SK246-Y
					Q232	8-729-119-78		2SC2785-HFE (D309)
	8-719-301-37		SEL2210S-CD		Q232	8-729-620-05		2SC2603-EF (A37/D359)
D438	8-719-301-37		SEL2210S-CD		Q233	8-729-900-63		DTA124ES
	8-719-301-37		SEL2210S-CD	į	Q241	8-729-141-26	TRANSISTOR	2SC3622A-LK
D440	8-719-313-69		SEL3210S-CD		0010	0 700 000 00	TO ANOTOTO	DTC104EC
D441	8-719-301-37	LED	SEL2210S-CD		Q242	8-729-900-36	1KAN21210K	DTC124ES

PANEL

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
Q243	8-729-900-63	TRANSISTOR	DTA1	24ES			R402	1-249-435-11	CARBON	33K	5%	1/4W	
Q281	8-729-224-61			46-Y			R403	1-249-429-11		10K	5%	1/4W	
Q282	8-729-119-78				(D309)		R404	1-249-437-11		47K	5%	1/4W	
Q282	8-729-620-05	TRANSISTOR	2SC2	603-EF	(A37/D359)	R406	1-249-405-11	CARBON	100	5%	1/4W	
Q291	8-729-141-26	TRANSISTOR	2SC3	622A-LK			R409	1-249-433-11	CARBON	22K	5%	1/4W	
Q401	8-729-119-78				(D309)		R410	1-249-433-11		22K	5%	1/4W	
Q401	8-729-620-05	TRANSISTOR	2SC2	603-EF	(A37/D359)	R411	1-249-429-11	CARBON	10K	5%	1/4W	
Q432	8-729-900-63		DTA1				R412	1-249-433-11		22K	5%	1/4W	
Q433	8-729-900-63	TRANSISTOR	DTA1	24ES			R413	1-249-433-11	CARBON	22K	5%	1/4W.	
Q434	8-729-119-78	TRANSISTOR	2SC2	785-HFE	(D309)		R414	1-249-433-11	CARBON	22K	5%	1/4W	
Q434	8-729-620-05				(A37/D359)	R415	1-249-433-11	CARBON	22K	5%	1/4W	
Q435	8-729-119-78				(D309)		R416	1-249-417-11		1K	5%	1/4W	
Q435	8-729-620-05				(A37/D359),	R417	1-249-417-11		1K	5%	1/4W	
Q601	8-729-119-78	TRANSISTOR	2SC2	785-HFE	(D309)		R418	1-249-417-11	CARBON	1K	5%	1/4W	
Q601	8-729-620-05				(A37/D359)	R419	1-249-433-11		22K	5%	1/4W	
Q602	8-729-119-78				(D309)		R422	1-249-412-11		390	5%	1/4W	
Q602	8-729-620-05	TRANSISTOR	2SC2	603-EF	(A37/D359)	R423	1-249-412-11		390	5%	1/4W	
		/ DECLOTOR					R424	1-249-412-11		390	5% .	1/4W	
		< RESISTOR	>				R425	1-249-412-11	CARBON	390	5%	1/4W	
R230	1-247-903-00	CARBON	1M	5%	1/4W		R426	1-249-412-11	CARBON	390	5%	1/4W	
R231	1-249-417-11		1K	5%	1/4W		R427	1-249-411-11	CARBON	330	5%	1/4W	
R232	1-247-903-00		1M		1/4W		R428	1-249-412-11		390	5%	1/4W	
R233	1-249-429-11		10K		1/4W		R429	1-249-412-11		390	5%	1/4W	
R234	1-249-421-11	CARBON	2. 2K	5%	1/4W		R430	1-249-415-11	CARBON	680	5%	1/4W	
R235	1-249-423-11		3. 3K		1/4W		R442	1-249-418-11		1. 2K		1/4W	
R236	1-249-437-11		47K		1/4W		R443	1-249-409-11		220	5%	1/4W	
R237	1-249-412-11		390		1/4W		R444	1-249-441-11		100K		1/4W	
R238	1-249-427-11		6. 8K		1/4W		R445	1-249-409-11		220	5%	1/4W	
R239	1-247-903-00	CARBON	1M	5%	1/4W		R446	1-249-441-11	CARBON	100K	5%	1/4W	
R240	1-249-435-11		33K	5%	1/4W		R447	1-247-897-11	CARBON	560K	5%	1/4W	
R241	1-249-432-11		18K		1/4W		R448	1-247-897-11		560K		1/4W	
R242	1-249-429-11		10K		1/4W		R449	1-249-427-11		6.8K		1/4W	
R243	1-249-433-11		22K		1/4W		R450	1-249-436-11		39K	5%	1/4W	
R244	1-249-433-11	CARBON	22K	5%	1/4W		R499	1-249-427-11	CARBON	6. 8K	5%	1/4W	
R245	1-249-433-11		22K		1/4W		R500	1-249-436-11		39K	5%	1/4W	
	1-249-433-11			5%				1-249-405-11		100		1/4W	
R248	1-249-433-11			5%	1/4W		R602	1-249-417-11		1K	5%	1/4W	
R249	1-249-425-11		4. 7K		1/4W		R603	1-249-429-11		10K	5%	1/4W	
R280	1-247-903-00	CARBON	1M	5%	1/4W		R604	1-249-425-11	. CARBON	4. 7K	5%	1/4W	
R281	1-249-417-11	CARBON	1K	5%	1/4W		R605	1-249-441-11	CARBON	100K	5%	1/4W	
R282	1-247-903-00	CARBON	1M	5%	1/4W		R606	1-249-405-11	CARBON	100	5%	1/4W	
R283	1-249-429-11		10K		1/4W		R607	1-249-409-11		220	5%	1/4W	
R284	1-249-421-11		2. 2K		1/4W		R608	1-249-409-11		220	5%	1/4W	
R285	1-249-423-11	CARBON	3. 3K	5%	1/4W		R609	1-249-409-11	CARBON	220	5%	1/4W	
R286	1-249-437-11	CARBON	47K	5%	1/4W		R610	1-249-409-11	CARBON	220	5%	1/4W	
R287	1-249-412-11		390		1/4W		R611	1-249-421-11		2. 2K		1/4W	
R288	1-249-427-11	CARBON	6.8K		1/4W		R612	1-249-423-11		3. 3K		1/4W	
R289	1-247-903-00	CARBON	1M		1/4W		R613	1-249-441-11		100K		1/4W	
R299	1-249-425-11	CARBON	4.7K	5%	1/4W		R614	1-249-441-11		100K		1/4W	
R401	1-249-417-11	CARBON	1K	5%	1/4W		R615	1-249-441-11	CARBON	100K	5%	1/4W	

PANEL POLAR

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Descript	ion			Remark
R616	1-249-429-11	CARBON 10K	5% 1/4W		S419	1-554-303-21	SWITCH,	TACTILE	(HALL/1	.)	
R617	1-249-433-11		5% 1/4W		S420	1-554-303-21					
R618 R619	1-249-425-11				S421	1-554-303-21	SWITCH,	TACTILE	(MOVIE/	(3)	
K019	1-249-429-11	CARBON 10K	5% 1/4W		S422	1-554-303-21	SWITCH.	TACTILE	(WM/4)		
R620	1-249-429-11	CARBON 10K	5% 1/4W		S423	1-554-303-21	SWITCH,	TACTILE	(CAR/5)		
R621	1-249-429-11		5% 1/4W		S424	1-554-303-21				I/OFF)	
R622	1-249-429-11		5% 1/4W		S601	1-554-303-21					
R623 R624	1-249-429-11 1-249-429-11		5% 1/4W 5% 1/4W		S602	1-554-303-21	SWIICH,	TACTILE	(2)		
N024	1-245-425-11	CARDON TOR	3/0 1/4m		S603	1-554-303-21	SWITCH.	TACTILE	(3)		
R625	1-249-429-11	CARBON 10K	5% 1/4W		S604	1-554-303-21	SWITCH,	TACTILE	(4)		
R626	1-249-429-11		5% 1/4W		S605	1-554-303-21					
R627	1-249-425-11				S606	1-554-303-21					
R628 R629	1-249-425-11 1-249-425-11				S607	1-554-303-21	SWITCH,	TACTILE	(1)		
11023	1 240 420 11	CHILDON 4. III	5/0 1/4H		S608	1-554-303-21	SWITCH.	TACTILE	(8)		
R630	1-249-425-11	CARBON 4.7K	5% 1/4W		S609	1-554-303-21					
R631	1-249-425-11				S610	1-554-303-21					
R632	1-249-425-11				S611	1-554-303-21					
R633 R634	1-249-425-11 1-249-425-11				S612	1-554-303-21	Switch,	IACITLE	(DOWN)		
11001	1 210 120 11	Cimbon 1. Th	070 17 111		S613	1-554-303-21	SWITCH,	TACTILE	(SHIFT)		
R635	1-249-429-11	CARBON 10K	5% 1/4W		S614	1-554-303-21					
R636	1-249-441-11				S615	1-554-303-21)	
R637	1-249-441-11		·		S616	1-554-303-21					
R638 R639	1-249-441-11 1-249-441-11				S617	1-554-303-21	SWITCH,	IACIILE	(DAILI)		
11000	1 240 441 11	CAMBON 100K	070 17 411		S618	1-554-303-21	SWITCH,	TACTILE	(NEXT)		
		< VARIABLE RESISTO	OR >		S619	1-554-303-21	SWITCH,	TACTILE	(CLOCK)		
D.11001	1 000 051 11	DDG IIID GIDDGU	10017 /10017		S620	1-554-303-21					
RV231	1-223-251-11	RES, VAR, CARBON	(DBS LEVEL)		S621 S622	1-554-303-21 1-554-303-21					
RV232	1-223-251-11	RES, VAR, CARBON		,	3022	1-334-303-21	S#11CH,	INCITED	(CLEAR)		
		,	(FREQUENCY (Hz)))	S623	1-554-303-21	SWITCH,	TACTILE	(BACK)		
RV241	1-223-253-11	RES, VAR, CARBON			S624	1-554-303-21					l .
			(BALANCE))	S625	1-554-303-21					
		< SWITCH >			S626 S627	1-554-303-21 1-554-303-21					
		V DIFTOIL 7			0021	1 001 000 21	0111011,	morrada	(IIIIDII	MODE)	
S401		SWITCH, TACTILE (S628	1-554-303-21	SWITCH,	TACTILE	(CHARAC	TER)	
S402		SWITCH, TACTILE (F					/ WIDDAT	'OD \			
S403 S404		SWITCH, TACTILE (H SWITCH, TACTILE (H					< VIBRAT	UR >			
S406		SWITCH, TACTILE (X601	1-579-564-21	VIBRATOR	R, CRYSTA	AL (8.38	8608MH2	2)
S407		SWITCH, TACTILE (7			*****	*****	******	******	******	*****	******
S408 S409		SWITCH, TACTILE (C SWITCH, TACTILE (T	,		*	A-4360-816-A	POLAR RO	MBD COM	ADIETE (מסיכו	. (2)
S410		SWITCH, TACTILE (F			Ť	A 4500 610 A	******	-			•
S411		SWITCH, TACTILE (S	,								
0.17.0	1 FF / 600 0	OWENDER THE TENE	177)				< CAPACI	TOR >			
S412 S413		SWITCH, TACTILE (USWITCH, TACTILE (I			C1701	1-162-294-31	CEDAMIC	0.00)1,,E 1	Λ0/ E	50V
S415 S414		SWITCH, TACTILE (I	,			1-102-294-31					50V
S415		SWITCH, TACTILE (1-124-902-00		0.47			50V
S416	1-554-303-21	SWITCH, TACTILE (M	MEMORY)			1-124-902-00		0.47			50V
C417	1 554 202 01	CHITCH TACTED (T	DEDCOMAL DITES		C1705	1-164-098-11	CERAMIC	0.04	17uF	1	.2V
S417 S418		SWITCH, TACTILE (F			C1706	1-124-903-11	ELECT	1uF	9	0% 5	50V
5110	2 001 000 21	online incline (b	. 10. 1111)	ı	01100	1 124 JUJ II	DDDCI	Tur	4	0/0	,01

POLAR POWER

Ref. No.	Part No.	$\underline{\text{Description}}$				Remark	Ref. No.	Part No.	Descriptio	<u>on</u>			Remark
C1707	1-162-288-31	CERAMIC	330PF	10%	50V				< RESISTO	OR >			
	1-124-903-11		luF	20%	50V								
	1-124-903-11		1uF	20%	50V			1-249-432-11		18K	5%	1/4W	
C1710	1-130-471-00	MYLAR	0.001uF	5%	50V		R1702	1-249-435-11	CARBON	33K	5%	1/4W	
							R1703	1-249-427-11	CARBON	6.8K	5%	1/4W	
	1-137-364-91		0.001uF	5%	50V		R1704	1-247-858-11	CARBON	13K	5%	1/4W	
	1-130-471-00		0.001uF	5%	50V		R1705	1-249-417-11	CARBON	1K	5%	1/4W	
	1-137-364-91		0.001uF	5%	50V								
	1-130-736-11		0.01uF	5%	50V			1-249-417-11		1K	5%	1/4W	
C1713	1-130-736-11	FILM	0. 01uF	5%	50V			1-249-441-11		100K	5%	1/4W	
							R1708	1-249-440-11	CARBON	82K	5%	1/4W	
	1-124-903-11		1uF	20%	50V			1-249-439-11		68K	5%	1/4W	
	1-124-903-11		luF	20%	50V		R1710	1-249-439-11	CARBON	68K	5%	1/4W.	
	1-124-903-11		1uF	20%	50V								
	1-162-291-31		560PF	10%	50V		R1711	1-249-439-11	CARBON	68K	5%	1/4W	
C1718	1-162-291-31	CERAMIC	560PF	10%	50V		R1712	1-247-878-00	CARBON	91K	5%	1/4W	
								1-247-878-00		91K	5%	1/4W	
	1-124-477-11		47uF	20%	25V		R1714	1-249-441-11	CARBON	100K	5%	1/4₩	
	1-161-379-00		0.01uF	20%	25V			1-249-441-11		100K	5%	1/4W	
C1721	1-161-379-00	CERAMIC	0. 01uF	20%	25V								
C1722	1-161-379-00	CERAMIC	0. 01uF	20%	25V		R1716	1-249-441-11	CARBON	100K	5%	1/4₩	
C1723	1-161-379-00	CERAMIC	0. 01uF	20%	25V		R1717	1-249-441-11	CARBON	100K	5%	1/4W	
							R1718	1-249-429-11	CARBON	10K	5%	1/4W	
	1-161-379-00		0.01uF	20%	25V			1-249-429-11		10K	5%	1/4W	
C1725	1-124-477-11	ELECT	47uF	20%	25V		R1720	1-249-429-11	CARBON	10K	5%	1/4W	
C1726	1-124-903-11	ELECT	1uF	20%	50V							-, -,,	
C1727	1-124-903-11	ELECT	1uF	20%	50V		R1721	1-249-434-11	CARBON	27K	5%	1/4W	
C1728	1-124-034-51	ELECT	33uF	20%	16V	·		1-249-441-11		100K		1/4W	
												,	
C1729	1-124-907-11	ELECT	10uF	20%	50 V				< VARIABL	E RESISTO	OR >		
		< CONNECTOR	>				RV1701	1-238-601-11	RES ADI	CARRON	22K		
								1-238-599-11					
* CN1701	1-568-832-11	SOCKET, CON	NECTOR 13P						,,				
									< SWITCH	>			
		< DIODE >											
							S1701	1-571-303-11	SWITCH, S	SLIDE			
D1701	8-719-987-63	DIODE 1N4	148M										
D1702	8-719-987-63	DIODE 1N4	148M						< TEST PI	N >			
D1703	8-719-987-63	DIODE 1N41	148M										
	8-719-987-63		148M				* TP1701	1-560-061-00	PIN, CONN	ECTOR 3P			
D1705	8-719-987-63	DIODE 1N4	148M				* TP1702	1-560-061-00	PIN, CONN	ECTOR 3P			
		< IC >					******	*****	*******	******	*****	******	*****
IC1701	8-759-063-04	IC IR3R42					*	A-4356-906-A	POWER ROA	BD CUMDI	ETF /1	7300)	
	8-759-634-51		o				φ	A 4000 000 A	*****		,	•	
	8-759-140-53								****	*****	****	ኮዯዯዯዯ	
202.00	0 .00 110 00	10 11000)DOI				*	A-4356-987-A	DOWED DOV	DD COMDI	בדב (ו	1950.ADD 1	ጥ)
		< COIL >					т	N 4000 001-N)333:ADF, 1 	-,
									*****	' ዋ ዋ ዋ ዋ ዋ ዋ ዋ ዋ ዋ የ	የጥጥጥጥጥ	r~~~~~~~	ጥ
L1701	1-409-497-11	COIL (FILTER	?)				*	A-4356-993-A	POWER BOA	RD. COMPT	ETE (I)359 · HK)	
		`	,					1000 000 11	*****		•		
		< TRANSISTOR	? >										
							*	A-4360-001-A	POWER BOA	RD. COMPI	ETE ((37)	
Q1701	8-729-900-61	TRANSISTOR	DTA114ES						*****				
Q1702	8-729-900-80	TRANSISTOR	DTC114ES										
Q1703	8-729-900-80	TRANSISTOR	DTC114ES						< CAPACIT	OR >			
	8-729-900-80		DTC114ES										
Q1705	8-729-900-61	TRANSISTOR	DTA114ES			-	<u></u> ^ C1	1-161-744-00	CERAMIC	0. 01uF		400V	
									ı				
										The comp	onents	identified b	y mark

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

POWER AMPLIFIER

Ref. No.	Part No.	Description	<u>!</u>]	Remark	Ref. No.	Part No.	Description	<u>1</u>		Remark
C801	1-124-907-11		10uF		50V 16V				< RELAY >			
C802 C803 C804	1-162-306-11 1-124-907-11 1-162-306-11	ELECT	0. 01uF 10uF 0. 01uF	20%	50V 16V		RY1	1-515-738-11	RELAY, PO	VER		
							*****	******	******	******	*****	*****
C805 C806	1-124-463-00 1-124-360-00		0. 1uF 1000uF	20% (D309	50V 16V 9, D359)		*	A-4356-905-A		*****	*****	****
C806	1-124-557-11	ELECT	1000uF	20%	25V (A37)					(D	309:AEP	P, EE, CIS)
C807 C811 C812	1-136-165-00 1-124-910-11 1-124-907-11	ELECT	0. 1uF 47uF 10uF	20%	50V 50V 50V		.*	A-4356-986-A		LIFIER BOAR *******	*****	
C813	1-124-122-11		100uF		50V			A 4200 000 A	DOWED AMD	TETED DOAD	D COME	OI DTD (A97)
		< CONNECTOR	R >				*	A-4360-002-A		**********		
	1-564-321-00 1-568-934-11 1-568-951-11	PIN, CONNEC	CTOR 7P				*	A-4360-132-A		LIFIER BOAR *******	*****	
		< DIODE >					*	A-4360-506-A		LIFIER BOAR ******		
D801 D802	8-719-987-63 8-719-200-82	DIODE 111	4148M ES2								((D359:IT)
D803 D804 D805	8-719-200-82 8-719-200-82 8-719-200-82	DIODE 111	ES2 ES2 ES2				*	A-4360-992-A		LIFIER BOAR *******	*****	
D806	8-719-987-63		4148M						< CAPACITO	OR >		
D811 D812 D813 D821	8-719-014-66 8-719-002-60 8-719-200-82 8-719-987-63	DIODE UZI	P-5.6B L-33L ES2 4148M				C701 C702 C703	1-124-927-11 1-110-337-51 1-110-339-11	MYLAR	4. 7uF 150PF 220PF	20% 5% 5%	100V 50V 50V
D021	0-119-901-00	< IC >	414011				C704 C705	1-124-910-11 1-124-910-11	ELECT	47uF 47uF	20% 20%	50V 50V
IC801	8-759-820-13						C706 C709	1-124-916-11 1-124-122-11	ELECT	22uF 100uF	20%	63V 50V
		< TRANSIST	OR >				C710 C711	1-136-165-00 1-136-163-00		0. 1uF 0. 068uF	5% 5%	50V 50V
Q811 Q821	8-729-141-83 8-729-119-78			-LK -HFE (D3	309)		C712	1-136-163-00	FILM	0.068uF	5%	50V
Q821	8-729-620-05	TRANSISTOR	2SC2603	-EF (A37	7/D359)		C713	1-164-159-11 1-124-910-11		0. 1uF 47uF	20%	50V 50V
Q822 Q822	8-729-119-78 8-729-620-05			-HFE (D3 -EF (A37)	C714 C745	1-164-081-11		470PF	10%	50V 50V 0359:IT)
		< RESISTOR	>				C746	1-162-290-31	CERAMIC	470PF	10%	50V 0359:IT)
R801	1-249-417-11		1K 5%				C751	1-124-927-11	ELECT	4. 7uF	20%	100V
R802 <u>↑</u> R803	1-249-429-11 1-212-857-00		10K 5%		w ₩ F		C752	1-110-337-51	MYLAR	150PF	5%	50V
R811	1-249-425-11	CARBON	4.7K 5%	1/4			C753	1-110-339-11		220PF	5%	50V
R812	1-249-421-11	CARBON	2. 2K 5%	1/4	W		C754	1-124-910-11		47uF	20%	50V
<u></u> ↑R813	1-212-934-00	FUSIBLE	1 5%	1/2	WF		C755 C759	1-124-910-11 1-124-122-11		47uF 100uF	20% 20%	50V 50V
R821	1-249-433-11	CARBON	22K 5%	1/4	W							
R822	1-249-433-11	CARBON	22K 5%	1/4	W		C760 C761	1-136-165-00 1-136-163-00		0. 1uF 0. 068uF	5% 5%	50V 50V
							C762	1-136-163-00		0. 068uF	5%	50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

POWER AMPLIFIER

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
		< CONNECTOR	>				R721	1-247-881-00	CARBON	120K	5%	1/4W	
. 0110.11	1 504 510 11	D1110 A0111-		_			R722	1-249-437-11		47K	5%	1/4W	
* CNZ41	1-564-518-11	PLUG, CONNE	CTOR 3	P			R723	1-249-439-11	CARBON	68K	5%	1/4W	
		< DIODE >					R724	1-249-417-11	CARBON	1K	5%	1/4W	
							R725	1-249-433-11	CARBON	22K	5%	1/4W	
D701 D751	8-719-987-63 8-719-987-63		148M 148M				R726	1-249-433-11		22K	5%	1/4W	
DIST	0-119-901-03	DIODE IN4	14011				R727 	1-249-426-11 1-249-383-81		5. 6K 1. 5	5% 5%	1/4W 1/4W	F
		< IC >					23, 00	2 210 000 01	O.III.DOIY	1.0	070	1/ 1/	1
10701	0 740 000 00	10 0mg (1)	70117017	(107	`		R751	1-249-417-11		1K	5%	1/4W	
	8-749-920-22 8-749-920-09) 9/D359)		R752 R753	1-249-438-11 1-249-414-11		56K 560	5% 5%	1/4W 1/4W	
20102	0 110 020 00	10 0111 111	00	(200	0, 5000)		R754	1-249-438-11		56K	5%	1/4W	
		< COIT >					R755	1-249-425-11	CARBON	4.7K	5%	1/4W	
L701	1-420-872-00	COIL ATR C	ORF.									(D309/	D359)
L751	1-420-872-00						R755	1-249-427-11	CARBON	6. 8K	5%	1/4W	(A37)
							R756	1-249-425-11		4.7K		1/4W	(,
		< TRANSISTO	R >				DALE	1 040 407 11	CARROW	0.017	=0/	(D309/	
Q701	8-729-140-84	TRANSISTOR	2SC1	841-P	AFAEA		R756 R757	1-249-427-11 1-249-425-11		6. 8K 4. 7K		1/4W 1/4W	(A37)
Q702	8-729-900-80	TRANSISTOR	DTC1					1 510 150 11	CHILDOIT	1. 111	070	(D309/	D359)
Q703	8-729-119-78				FE (D309		R757	1-249-427-11	CARBON	6.8K	5%	1/4W	(A37)
Q703 Q751	8-729-620-05 8-729-140-84				F (A37/I Afaea	0359)	R758	1-249-425-11	CADDOM	4. 7K	E0/	1/4W	
Q101	0 120 140 04	THINGIOION	2501	041 1.	ni nen		11750	1-249-425-11	CARDON	4. fA	270	(D309/	D359)
		< RESISTOR :	>				R758	1-249-427-11		6.8K		1/4W	
R701	1-249-417-11	CADDON	117	ΕOV	1 / 4307		R759	1-249-421-11		2. 2K		1/4W	
R701	1-249-438-11		1K 56K	5% 5%	1/4W 1/4W		R760 <u></u> ↑ R761	1-249-421-11 1-212-881-11		2. 2K 100	5% 5%	1/4W 1/4W	F
R703	1-249-414-11	CARBON	560	5%	1/4W		<u></u>	1 110 001 11	1001000	100	070	1/ 11	•
R704	1-249-438-11		56K	5%	1/4W		 ♠R762	1-217-151-00				2W	
R705	1-249-425-11	CARBON	4. 7K	5%	1/4W (D309/D	1350)	R763 R764	1-249-397-11 1-249-397-11		22 22	5% 5%	1/4W 1/4W	
					(D00071	7000)	R765	1-249-417-11		1K	5%	1/4W	
R705	1-249-427-11		6.8K		1/4W ((A37)	R766	1-249-431-11		15K	5%	1/4W	
R706	1-249-425-11	CARBON	4. 7K	5%	1/4W (D309/D	250)	D767	1 040 443 11	CADDON	1007	50 /	1 / 477	
R706	1-249-427-11	CARBON	6. 8K	5%	1/4W (*	R767 R768	1-249-441-11 1-249-397-11		100K 22	5% 5%	1/4W 1/4W	
R707	1-249-425-11		4.7K		1/4W	()	R769	1-249-397-11		22	5%	1/4W	
P707	1-249-427-11	CARRON	C 017	ΕN	(D309/E								
R707	1-249-427-11		6. 8K 4. 7K		1/4W (1/4W	(A37)	******	******	******	*****	****	*****	******
			''	070	(D309/D	359)							
R708	1-249-427-11		6. 8K		1/4W ((A37)							
R709 R710	1-249-421-11 1-249-421-11		2. 2K 2. 2K	5% 5%	1/4W								
	1-212-881-11		100	5%	1/4W 1/4W	F							
<u>^</u> R712	1-217-151-00	METAL PLATE			2₩								
R713	1-249-397-11	CARBON	22	5%	1/4W								
R714	1-249-397-11	CARBON	22	5%	1/4W								
R715	1-249-417-11	CARBON	1K	5%	1/4₩								
	1-249-431-11		15K	5%	1/4W								
R717 R718	1-249-441-11 1-249-397-11		100K 22	5% 5%	1/4W 1/4W								
21, 10	001 11	01312DOI1		070	1/2#								
R719	1-249-397-11		22	5%	1/4W								
R720	1-249-429-11	CARBON	10K	5%	1/4W		l						

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

ST MAIN

Ref. No.	Part No.	Description	<u>n</u>		Remark	Ref. No.	Part No.	Description	1		Remark
*	A-4356-901-A	ST MAIN BO				C259	1-124-902-00	ELECT	0. 47uF	20%	50V
		***********				C260	1-136-153-00	FILM	0.01uF	5%	50V
*	A-4356-982-A	ST MAIN BO	ARD, COMPL	ETE (D3	59:AEP)	C261	1-136-168-00	FILM	0. 18uF	5%	50V
		******				C262	1-130-478-00	MYLAR	0.0039uF	5%	50V
						C263	1-136-163-00	FILM	0.068uF	5%	50V
*	A-4356-989-A	ST MAIN BO	ARD, COMPL	ETE (D3	59:UK)	C264	1-130-474-00	MYLAR	0. 0018uF	5%	50V
		*******	******	*****	*****						
						C265	1-136-159-00		0. 033uF	5%	50V
*	A-4356-998-A			•	•	C266	1-130-469-00		680PF	5%	50V
		*****	*****	*****	**	C267	1-136-154-00		0. 012uF	5%	50V
				/		C268	1-110-340-11		270PF	5%	50V
*	A-4360-123-A			•		C269	1-130-479-00	MYLAK	0. 0047uF	5%	50V
		******	*****	*****	****	C270	1-124-916-11	DI DOT	22uF	20%	63V
ala.	A-4360-503-A	CT MAIN DO	ADD COMDI	ETE (DS	E0.IT)	C270 C301	1-161-379-00		0. 01uF	20%	25V
*	A-4500-505-A	31 MAIN DO		-		C301	1-101-373-00	CLIMATE			359:IT)
		****	*****	*****	***	C302	1-124-477-11	ELECT	47uF	20%	25V
*	A-4360-814-A	ST MAIN BO	ARD COMPI	ETE (DS	(0.EE)	C303	1-161-379-00		0. 01uF	20%	25V
Ψ.	N-4300-014-V	*******				C305	1-161-379-00		0. 01uF	20%	25V
		*******	T T T T T T T T T T T T T T T			0000	1 101 010 00	OBITIMIO			359:IT)
*	A-4360-817-A	ST MAIN BO	ARD, COMPL	ETE (D3	09:CIS)				(,,-	,
		*****	,			C306	1-161-379-00	CERAMIC	0.01uF	20%	25V
									(D309	:G, IT/D	359:IT)
		< CAPACITO	R >			C307	1-161-379-00	CERAMIC	0.01uF	20%	25V
						C308	1-161-379-00	CERAMIC	0.01uF	20%	25V
C202	1-110-339-11	MYLAR	220PF	5%	50V	C309	1-161-379-00	CERAMIC	0.01uF	20%	25V
C203	1-130-471-00	MYLAR	0. 001uF	5%	50 V	C310	1-124-477-11	ELECT	47uF	20%	25V
C204	1-124-907-11	ELECT	10uF	20%	50 V						
C205	1-124-907-11	ELECT	10uF	20%	50V	C311	1-161-379-00		0. 01uF	20%	25V
C206	1-136-163-00	FILM	0.068uF	5%	50 V	C312	1-101-006-00		0. 047uF		50V
						C313	1-123-382-00		3. 3uF	20%	100V
C207	1-124-903-11		luF	20%	50V	C314	1-161-379-00		0. 01uF	20%	25V
C208	1-136-158-00		0. 027uF	5%	50V	C315	1-161-329-00	CERAMIC	0. 0068uF	30%	16V
C209	1-124-902-00		0. 47uF	20%	50V	0010	1 100 000 01	CEDANIC	10000	1.00/	F01/
C210	1-136-153-00		0. 01uF	5%	50V	C316	1-162-282-31 1-162-292-31		100PF 680PF	10% 10%	50V 50V
C211	1-136-168-00	rilW	0. 18uF	5%	50V	C317	1-102-292-31	CERAMIC			30V 359:IT)
C212	1-130-478-00	MVI AD	0. 0039uF	5%	50V	C318	1-124-903-11	FIFCT	luF	20%	50V
C212	1-136-163-00		0. 068uF	5%	50V	C320	1-124-903-11		luF	20%	50V
C213	1-130-474-00		0. 0018uF	5%	50V	C321	1-124-902-00		0. 47uF	20%	50V
C214	1-136-159-00		0. 033uF	5%	50V	0021	1 101 000 00	, , ,	01 1101	- 070	
C216	1-130-469-00		680PF	5%	50V	C322	1-124-463-00	ELECT	0. 1uF	20%	50V
0=10	1 100 100 00					C323	1-161-329-00		0.0068uF	20%	16V
C217	1-136-154-00	FILM	0. 012uF	5%	50 V	C324	1-161-329-00	CERAMIC	0.0068uF	20%	16V
C218	1-110-340-11		270PF	5%	50 V	C325	1-124-477-11		47uF	20%	25V
C219	1-130-479-00	MYLAR	0.0047uF	5%	50V	C326	1-124-907-11	ELECT	10uF	20%	50V
C220	1-124-916-11	ELECT	22uF	20%	63V						
C221	1-164-159-11	CERAMIC	0. 1uF		50V	C327	1-161-379-00		0.01uF	20%	25V
						C328	1-124-463-00		0. 1uF	20%	50V
C222	1-164-159-11		0. 1uF		50V	C329	1-124-927-11		4. 7uF	20%	100V
C223	1-164-159-11		0. 1uF		50V	C330	1-161-379-00		0. 01uF	20%	25V
C252	1-110-339-11		220PF	5%	50V	C331	1-126-176-11	ELECT	220uF	20%	10V
C253	1-130-471-00		0.001uF	5%	50V	6000	1 101 000 0	ODDANA	0 07 5	0.004	0.517
C254	1-124-907-11	ELECT	10uF	20%	50V	C332	1-161-379-00		0. 01uF	20%	25V
0055	1 104 007	DI DOT	10.0	0.08/	FOW	C335	1-161-379-00		0. 01uF	20%	25V
C255	1-124-907-11		10uF	20%	50V	C336	1-161-379-00		0.01uF	20% 5%	25V 50V
C256	1-136-163-00		0.068uF	5%	50V	C339	1-162-210-31		30PF 9:AEP, EE, Cl		
C257	1-124-903-11		luF	20%	50V	C341	1-123-382-00		3. 3uF	20%	100V
C258	1-136-158-00	LILM	0. 027uF	5%	50V	[C341	1-123-362-00	LLECI	o. our	2U%	1001

ST MAIN

Ref. No.	Part No.	Description	1			Remark	Ref. No.	Part No.	Descript	tion	Remark
C342 C343	1-123-382-00 1-123-382-00		3. 3uF 3. 3uF		100V 100V			1-567-389-11 1-577-070-81		CERAMIC (D309:G, IT/D359:1	T)
C344	1-123-382-00		3. 3uF		100V		Croos	1-311-010-01		D309: AEP, EE, CIS/D359: AEP, U	JK)
C345	1-161-375-00		0. 0022uF		50V		CF304	1-577-075-11			,
C346	1-161-375-00	CERAMIC	0. 0022uF	20%	50V				< CONNE	CTOR >	
C351	1-161-494-00		0. 022uF		25V		,,				
C352	1-102-120-00		AEP, EE, CI 0. 0018uF		EP, UK) 50V)				CONNECTOR 12D (D200, CLC)	
0002	1 102 120 00		: AEP, EE, CI)				CONNECTOR 13P (D309:CIS) CONNECTOR 9P	
C353	1-161-374-11	CERAMIC	0. 0015uF	20%	50V					CONNECTOR 13P	
C354	1 161 404 00		AEP, EE, CI)	CNJ132	1-750-179-11	SOCKET,	CONNECTOR 5P	
C354	1-161-494-00		0. 022uF : AEP, EE, CI		25V Ed lik')			< COMPO	SITION CIRCUIT BLOCK >	
C361	1-164-098-11		0. 047uF		12V	,			COM	DITTON CINCOIL DECON >	
caca	1 101 404 00	CEDANIC	0.000 5		0511					TION CIRCUIT BLOCK	
C362 C363	1-161-494-00 1-164-159-11		0. 022uF 0. 1uF		25V 50V		CP251	1-239-053-11	COMPOSI	TION CIRCUIT BLOCK	
0000	1 104 100 11		AEP, EE, CI)			< DIODE	>	
C364	1-161-494-00	CERAMIC	0. 022uF		25V						
C371	1_169_106_91		AEP, EE, CI)	D351	8-719-987-63		1N4148M	• \
CS/I	1-162-196-31		5. 6PF : AEP, EE, CI!		50V Ep. lik')	D391	8-719-987-63	•	309:AEP, EE, CIS/D359:AEP, UK 1N4148M (D309:CIS)	.)
C371	1-162-198-31		8. 2PF		50V	•	D392	8-719-987-63		1N4148M (D309:CIS)	
	**		(A37/D309	:G, IT/D3	59:IT))					
C373	1-162-288-31	CERAMIC	330PF	10%	50V				< FRONT	'END >	
Coro	1 102 200 01	(A37/D309:)	FE301	1-463-857-21	FRONT E	ND (FM) (D309:G, IT/D359:IT	")
C501	1-102-961-00	CERAMIC	27PF	5%	50V		FE301	1-465-006-11	FRONT E	ND (FM) (2 GANG) (D359:UK)	
C502 C503	1-102-961-00 1-124-477-11		27PF 47uF		50V 25V		FE301	1-465-396-11	FRONT E	ND (FM 3GANG) (D309:EE, CIS	i)
C504	1-161-379-00		0. 01uF		25V 25V		rE301	1-095-090-21	FRONT E	ND (FM) (2 GANG) (A37/D309:AEP/D359:AEF	2)
							FE351	1-236-463-11	ENCAPSU	LATED COMPONENT	,
C505 C506	1-161-379-00 1-161-379-00		0. 01uF 0. 01uF		25V				(D	309:AEP, EE, CIS/D359:AEP, UK	.)
C507	1-161-379-00		0. 01uF		25V 25V		FE352	1-239-260-11	ENCAPSII	LATED COMPONENT	
C521	1-124-925-11	ELECT	2. 2uF		100V		1 2002	1 200 200 11	DIVEZII SO	(A37/D309:G, IT/D359:I	T)
C522	1-124-463-00	ELECT	0. luF	20%	50Y		FE352	1-239-261-12		LATED COMPONENT	
C523	1-161-379-00	CERAMIC	0. 01uF	20%	25V				(D	309:AEP, EE, CIS/D359:AEP, UK	.)
C524	1-161-379-00		0. 01uF		25V				< IC >		
C525	1-124-477-11		47uF		25V						
C525	1-126-101-11		(A37/D309: <i>I</i> 100uF		/D359) 1 6V			8-759-633-78 8-759-804-49			
0000	1 120 101 11	DDDCI	roour	(D309:E))		8-759-822-26		7522 (A37/D359) 7522K (D309)	
C531	1-136-173-00		0. 47uF	5%	50 V			8-759-633-78	IC M5	289P	
		(D309:	AEP, EE, CIS	S/D359:A	EP, UK))	IC301	8-759-821-45	IC LA	1851N	
C532	1-161-494-00	CERAMIC	0. 022uF	,	25V		IC501	8-759-820-91	IC IC	7218	
		(D309:	AEP, EE, CIS)	10001	0 100 020 02	10 20	(210	
C533	1-124-463-00		0. luF		507				< IFT >		
		(0309:	AEP, EE, CIS	5/D359:AI	EP, UK)		TFT301	1-404-713-11	TRANSFO	RMFR IF	
		< FILTER >					111001	1 101 110 11			
CE301	1-567-389-11	FILTER CER	PAMIC (Dang	ጋ•ሮ ፤ፕ/ኮ!	250.11	.)			< COIL	>	
	1-577-070-81			v.0, 11/D		' /	L301	1-410-686-11	INDUCTO	R 1mH	
		(A37/D309	: AEP, EE, C							(A37/D309:G, IT/D359:IT) .
CF302	1-567-389-11	FILTER, CER	RAMIC (D309	9:G, IT/D	359:17	(1)	L301	1-407-500-00			•
									(D	309:AEP, EE, CIS/D359:AEP, UK)

ST MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descriptio	<u>on</u>			Remark
L351	1-410-525-11	THINITOR 99	Λ.,U			R253	1-249-427-11	CARBON	6. 8K	5%	1/4W	
F991	1-410-323-11			S/D359:AEP, U	()	R301	1-249-401-11			5%	1/4W	
		(2000)	,,	2,2000000	-,	R302	1-249-405-11	CARBON		5%	1/4W	
		< FILTER >							(D3	09:G,	IT/D359:IT)
LPF301	1-235-164-00	FILTER, LOW	PASS			R302	1-249-407-11	CARBON	150	5%	1/4W	
	1-235-164-00								(A37/D3	09:AE	EP/D359:AEP)
						R302	1-249-413-11	CARBON	470		1/4W	
		< TRANSISTO	R >			5000	1 040 411 11	CADDON			CIS/D359:UK)
0001	0 700 000 00	TOANCICTOD	2SC2669	OV		R303	1-249-411-11	CARBON	330		1/4W IT/D359:IT)
Q301	8-729-230-99	TRANSISTOR		-01 :G, IT/D359:I'	Τ)	R304	1-249-432-11	CARBON	•	5%	1/4₩	,
Q302	8-729-230-99	TRANSISTOR	2SC2669		• /	1	1 510 105 11	Olin Doll			IT/D359:IT)
4002	0 140 200 00			:G, IT/D359:I	T)	R305	1-249-411-11	CARBON		5%	1/4W	
Q303	8-729-230-XX	TRANSISTOR	2SC2669						(D3	309:G,	IT/D359:IT)
Q304	8-729-230-XX		2SC2669					O L DDON	0717	- 0/	3 / 4107	
Q305	8-729-900-80	TRANSISTOR	DTC114E	S		R306	1-249-434-11	CARBON		5%	1/4W IT/D359:IT)
0000	8-729-900-61	TRANSTOTOR	DTA114E	c		R307	1-249-414-11	CARRON		5%	1/4W	,
Q306 Q307	8-729-900-61		DTC114E			1,001	1-245-414-11	CARDON			IT/D359:IT)
Q308	8-729-119-78			-HFE (D309)		R308	1-249-411-11	CARBON		5%	1/4W	,
Q308	8-729-620-05			-EF (A37/D35	9)	R309	1-249-432-11			5%	1/4W	
Q309	8-729-119-78		2SC2785	-HFE (D309)		R310	1-249-411-11	CARBON	330	5%	1/4W	
					- `			CARRON	0717	= 0/	1 / 400	
Q309	8-729-620-05			-EF (A37/D35	9)	R311	1-249-434-11		27K 560	5% 5%	1/4W 1/4W	
Q351	8-729-900-80		DTC114E	S S/D359:AEP,U	V)	R312	1-249-414-11				1/4" D359:AEP, UK)
Q352	8-729-119-78		2SC2785		n.)	R312	1-249-416-11		820	5%	1/4W	•/
Q002	0 123 113 10	11/11/0101011		09: AEP, EE, CI	S)						IT/D359:IT)
Q352	8-729-620-05	TRANSISTOR	2SC2603		-,	R313	1-249-405-11	CARBON	100	5%	1/4W	
				(D359:AEP, U	K)	<u></u> ∧ R315	1-249-404-00	CARBON	82	5%	1/4W	
Q353	8-729-119-76		2SA1175			D010	1 040 400 11	CADDON	1017	5%	1/4W	
		(D309:	AEP, EE, CI	S/D359:AEP, U	K)	R316 R317	1-249-429-11 1-249-417-11		10K 1K	5%	1/4# 1/4W	
Q354	8-729-900-80	TRANSISTOR	DTC114E	'S		R318	1-249-435-11		33K	5%	1/4W	
£003	0 120 000 00			S/D359:AEP, U	K)	R319	1-249-428-11		8. 2K	5%	1/4W	
Q355	8-729-900-80	TRANSISTOR	DTC114E	S		R320	1-249-432-11		18K	5%	1/4W	
				S/D359: AEP, U	K)	R321	1-249-423-11	CARBON	3. 3K	5%	1/4W	
Q356	8-729-900-80		DTC114E		w\	B000	1 040 400 11	CADDON	107	5%	1/4W	
0001	8-729-900-80	•	DTC114E	S/D359:AEP, U	K)	R322 R323	1-249-429-11 1-249-418-11		10K 1.2K		1/4W	
Q501 Q502	8-729-900-61		DTA114E			1.020	1 240 410 11				D359:AEP, UK	()
Q 002	0 120 000 01	IIIIIIOIOII	D1111111			R323	1-249-423-11		3. 3K		1/4W	
Q521	8-729-202-67	TRANSISTOR	2SK246-	-GR3							, IT/D359:I7	")
Q522	8-729-201-84		2SC3112			R324	1-249-429-11			5%	1/4W	
Q531	8-729-202-67		2SK246-		17)	R325	1-249-429-11	. CARBON	10K	5%	1/4W	
0510	8-729-201-84		2SC3112	S/D359:AEP, U	K)	R326	1-249-409-11	CARRON	220	5%	1/4W	
Q532	0-129-201-04			Б S/D359:AEP, U	K)	R327	1-249-437-11		47K	5%	1/4W	
		(5000.	, 22, 0.	0, 2000	/	R328	1-249-437-11		47K	5%	1/4W	
		< RESISTOR	>			R329	1-249-437-11	CARBON	47K	5%	1/4W	
											IT/D359:IT)	
R201	1-249-427-11		6. 8K 59			R330	1-249-435-11	. CARBON	33K	5%	1/4W	
R202	1-249-441-11		100K 5%						(D3)	u9:u,	IT/D359:IT)	
R203 R211	1-249-427-11 1-249-417-11		6. 8K 59			R331	1-247-899-11	CARBON	680K	5%	1/4W	
R211	1-249-417-11		1K 59			R332	1-247-899-11		680K		1/4W	
						R333	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R251	1-249-427-11		6.8K 59			R334	1-249-421-11		2. 2K		1/4W	
R252	1-249-441-11	CARBON	100K 59	3 1/4₩		R335	1-249-420-11	CARBON	1.8K	5%	1/4W	

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

ST MAIN SW

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description	Remark
R336 R337	1-249-420-11 1-249-426-11		5% 1/4W 5% 1/4W		R531	1-249-423-11		
R338 R351	1-249-426-11 1-249-433-11	CARBON 5.6K			R532	1-249-433-11	(D309: AEP, EE, CI CARBON 22K 59 (D309: AEP, EE, CI	6 1/4W
R352	1-249-437-11	(D309:AEP, EE,	CIS/D359:AEP,UK)		R533	1-249-414-11		6 1/4W
	. 1 210 101 11		, CIS/D359:AEP, UK	()	R534	1-249-417-11		K 1/4W
R353	1-247-903-00		5% 1/4W ,CIS/D359:AEP,UK)	R535	1-249-410-11		6 1/4W
R354	1-249-441-11	CARBON 100K			R536	1-249-421-11		
R355	1-249-433-11	CARBON 22K	5% 1/4W ,CIS/D359:AEP,UK		R537	1-249-425-11	(D309: AEP, EE, C)	IS/D359:AEP,UK)
R356	1-249-421-11	CARBON 2.2K			R538	1-249-405-11	(D309: AEP, EE, C)	IS/D359:AEP,UK)
R361	1-249-437-11			,		1 210 100 11	(D309: AEP, EE, C)	
R362 R363	1-249-437-11 1-249-425-11		-,				< VARIABLE RESISTOR	>
R364	1-249-425-11		, CIS/D359:AEP, UK 5% 1/4W	()			RES, ADJ, CARBON 22 RES, ADJ, CARBON 22	
R365	1-249-429-11		, CIS/D359:AEP, UK 5% 1/4W	()			< TRASFORMER >	
R366	1-249-413-11	CARBON 470					TRANSFORMER, DISCRIM	
,			, CIS/D359:AEP, UK)	T302	1-235-126-00	ENCAPSULATED COMPONE (D309	ENT 0:G, IT/D359:IT)
R367	1-249-434-11	(D309:AEP, EE	5% 1/4W ,CIS/D359:AEP,UK)			< TERMINAL >	
R368	1-249-433-11		5% 1/4W ,CIS/D359:AEP,UK)	TM301	1-537-264-11	TERMINAL BOARD (ANTE	ENNA)
R370	1-249-423-11		5% 1/4W 309:G,IT/D359:IT)	ŀ		TERMINAL BOARD, ANTE	(A37/D359:UK)
R501 R502	1-249-417-11 1-249-417-11		5% 1/4W 5% 1/4W					09/D359:AEP, IT)
R503	1-249-417-11	CARBON 1K	5% 1/4W				< TEST PIN >	
R504 R505	1-249-417-11	CARBON 1K	5% 1/4₩		* TP1	1-560-060-00	PIN, CONNECTOR 2P	
R506	1-249-429-11 1-249-417-11	CARBON 1K	5% 1/4W 5% 1/4W				< VIBRATOR >	
<u>1</u> R510	1-249-401-11	CARBON 47	5% 1/4W		XT501	1-577-126-21	VIBRATOR, CRYSTAL (7	7 2MH ₂)
	1-249-429-11		5% 1/4W					
R512 R513	1-249-425-11 1-249-417-11		5% 1/4W 5% 1/4W		******	******	******	*******
R514	1-249-429-11		5% 1/4W		*	1-646-074-91	SW BOARD (A37)	
R515	1-249-417-11		5% 1/4W		T	1-040-514-21	**********	
R521	1-249-423-11		5% 1/4W				< SWITCH >	
R522 R523	1-249-425-11 1-249-414-11							
R523	1-249-417-11		5% 1/4W 5% 1/4W		∆SW1	1-572-266-11	SWITCH, VOLTAGE SELE	
R525	1-249-410-11		5% 1/4W				(VOL	TAGE SELECTOR)
		210	4/ 111		******	*****	*********	*******
R526	1-249-421-11		5% 1/4W					
	1-249-425-11		5% 1/4W					
	1-249-425-11							
R529	1-249-405-11		5% 1/4W					
R530	1-249-405-11	CARBON 100	5% 1/4W		l			
		•						

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.





Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-646-978-11	VOL BOARD (D309) *******				ES & PACKING MATERIALS *******	
*	1-646-978-21	VOL BOARD (A37/D359) ************ < CAPACITOR >			1-466-982-2 1-501-369-1	1 COMMANDER, STANDARD (RM-S309) (1 COMMANDER, STANDARD (RM-S309) (1 ANTENNA (D359:AEP, IT) 1 ANTENNA, LOOP	(D309) (A37, D359)
C413	1-164-159-11	CERAMIC 0.1uF 50V			1-501-536-1	(D309:AEP, IT, EE, CIS/D35 1 ANTENNA (D309:AEP, IT, EE, CIS)	59:AEP, IT)
RV242	1-223-291-11	<pre>< VARIABLE RESISTOR > RES, VAR, CARBON 100K/100K</pre>	E)	*.	3-703-713-4	1 CORD, CONNECTION 13P (D309:AEP1,IT/D359:AEP 1 STICKER, SONY SYMBOL (10) 1 COVER, BATTERY (A37,D359)	°1, IT),
******	******	**********	******		3-756-332-1	1 COVER, BATTERY (D309) 1 MANUAL, INSTRUCTION GLISH, FRENCH, SPANISH, PORTUGUESE)((D309·AFP)
17 18 * 52 * 63 * 64 * 65 * 66 * AF801 * AF802 * AF803 * AF804 * AF805 * AF806 * FL431	$\begin{array}{c} 1-575-666-11\\ 1-751-025-11\\ 1-751-025-31\\ 1-533-213-11\\ \end{array}$ $\begin{array}{c} 1-533-217-31\\ 1-575-653-11\\ 1-690-608-11\\ 1-696-570-21\\ 1-575-651-11\\ \end{array}$ $\begin{array}{c} 1-532-078-00\\ 1-532-078-00\\ 1-532-299-00\\ 1-532-286-00\\ 1-532-286-00\\ 1-519-648-21\\ \end{array}$	FUSE (1A) FUSE (1A) FUSE (5A) FUSE (5A) FUSE (2.5A)	9) 9, D359)	* * * ******* #1 #2 #3	3-756-332-4: ((0) 3-756-332-5: 3-756-334-4: (ENC) 4-957-500-0: 4-958-606-0: ************************************	I MANUAL, INSTRUCTION GERMAN, DUTCH, SWEDISH, ITALIAN) (D30 I MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) I MANUAL, INSTRUCTION GLISH, FRENCH, SPANISH, PORTUGUESE) (INDIVIDUAL CARTON (D309:AEP, IT) I INDIVIDUAL CARTON (D309:EE, CIS) I CUSHION (D309:AEP, IT, EE, CIS) ***********************************	09:AEP, IT) (D359:IT) (D359:AEP)
↑T1 ↑ ↑ ↑T2 ↑	1-423-646-21 1-423-646-31 1-423-647-21 1-423-499-11 1-423-499-21 1-423-500-21	INDICATOR TUBE, FLUORESCENT TRANSFORMER, POWER (D359) TRANSFORMER, POWER (D309) TRANSFORMER, POWER (D309) TRANSFORMER, POWER (D359) TRANSFORMER, POWER (D359) TRANSFORMER, POWER (A37) ************************************	******				

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

STR-A37/D309/D359

STR-A37/D309/D359

SONY. SERVICE MANUAL

AEP Model
STR-D309/D359

UK Model
STR-D359

Australian Model
E Model
PX Model
STR-A37

SUPPLEMENT-1

File this Supplement with the Service Manual.



Subject: POLAR BOARD

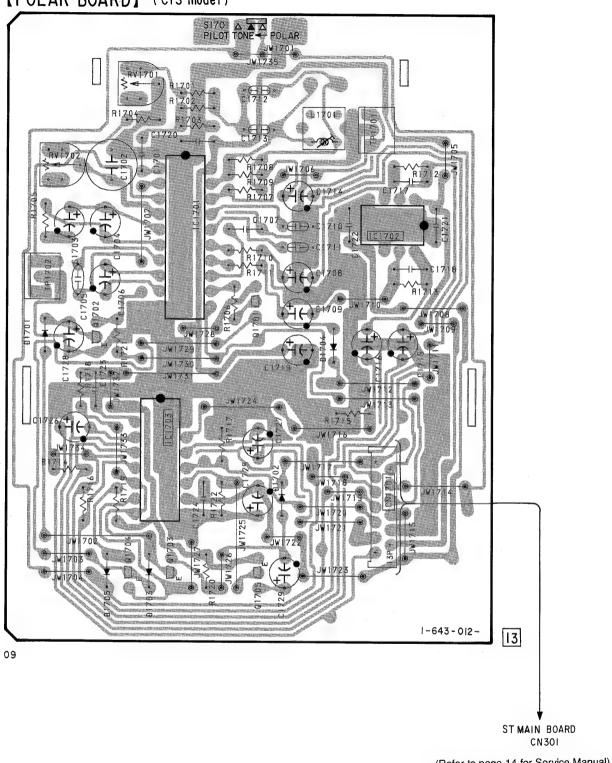
(PRINTED WIRING BOARD)

(CIS Model)

: ELECTRICAL ADJUSTMENTS

Correction

[POLAR BOARD] (CIS model)



(Refer to page 14 for Service Manual)

ELECTRICAL ADJUSTMENTS

SUBCARRIER ADJUSTMENT (CIS Model only)

SWITE		Function Sel Band Selecto FM mode: M	or: FM							
SIGNA	AL RATOR	69 MHz, 60 dB, FM modulated								
STEP	TEST STAGE	FM TUNING FREQUENCY	SIGNAL GENERA- TOR	AD- JUST- MENT	REMARKS					
1	fo	69 MHz	1 kHz (10 kHz dev.)		The value in this state should be 0 dB (Vo).					
2			31.25 kHz (10 kHz dev.)	L1701	Adjust for maximal output.					
3	Q			RV1701	Indication is +14 dB against Vo.					

VCO FREQUENCY ADJUSTMENT

SIGNAL GENERATOR	1kHz , 30%, FN	i modulated (mono signal)
FREQUENCY	FM TUNING FREQUENCY	AD- JUST- MENT	REMARKS
FM mono position		FM stereo po	osition (unmodulated)
69 MHz at 60 dB	69 MHz	RV1702	Adjust for 31.25 kHz ±50 Hz.

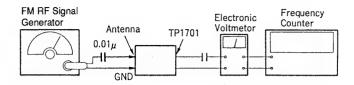


Fig.1 SUBCARRIER

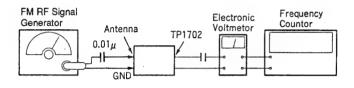
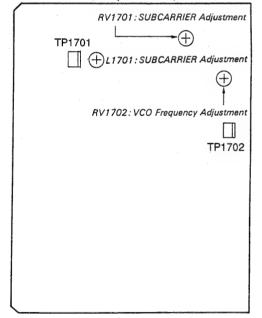
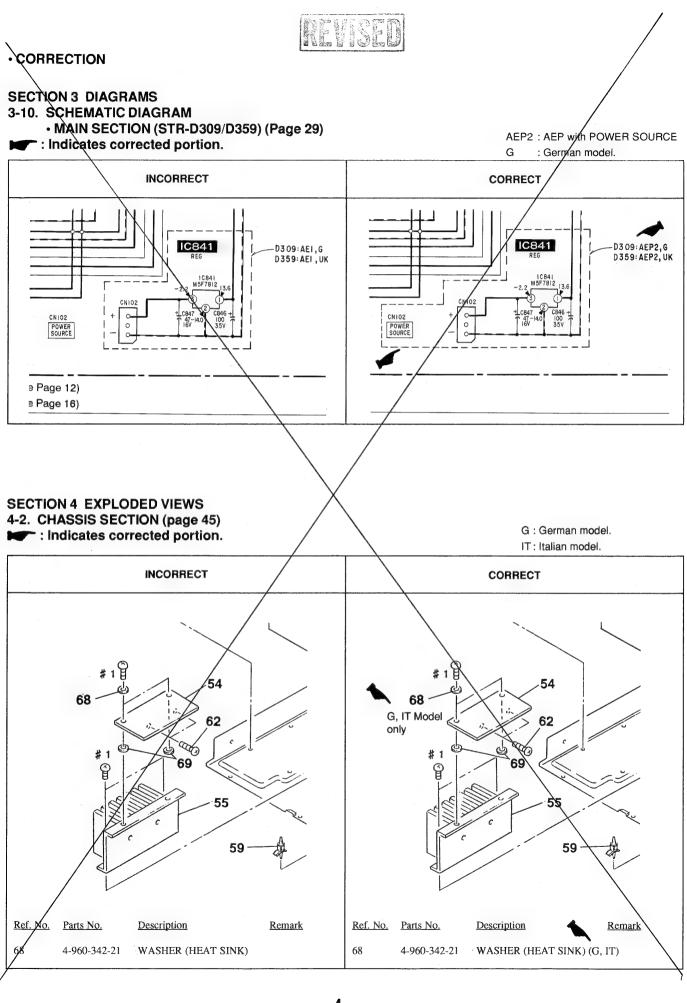


Fig. 2 VCO FREQUENCY

POLAR BOARD(Component side)





SECTION 5 ELECTRICAL PARTS LIST



-: Indicated Corrected portion

AEP1: AEP with out POWER SOURCE
AEP2: AEP with POWER SOURCE
EE: East European model
CIS: CIS model

CIS: CIS model
G: German model
IT: Italian model

PAGE		INCORRECT				CORRECT				
	Ref. No.	Part No.	Description	1	Remark	Ref. No.	Part No.	Description	<u>n</u>	Remark
47	*	A-4356-904-A A-4360-174-A			(D309:AEP) (D309:EE, CIS)	*	A-4356-904-A A-4360-174-A		COMPLETE	(D309:AEP2) ~
	*	A-4356-985-A	MAIN BOARD,	COMPLETE	(D359:AEP)	*	A-4356-985-A A-4360-499-A		COMPLETE	
			< CAPACITO	\$>	\			< CAPACITO	R >	
•	C846	1-124-122-11	ELECT	100uF (D309:AEP.	20% 50V , G/D353 AEP, UK)	C846	1-124-122-11		100uF D309:AEP2,	20% 25V G/D359:AEP2,UK)
	C847	21-124-477-11	ELECT	47uF	20% 25V G/D359:AEP,UK)	C847	1-124-477-11	ELECT	47uF	20% 25V (D359:AEP2, UK)
						C847	1-124-910-11	ELECT	47uF	20% 50V (D309: AEP2, G)
48			< CONNECTO	R >		1		< CONNECTO	R >	
	* CN102	1-566-210-11	PIN, CONNE		OWER SOURCE) ,G/D359:AEP,UK)	* CN102	1-566-210-11		•	OWER SOURCE) G/D359:AEP2,UK)
			< IC >					< IC >		
	IC841	8-759-604-39	IC AN629		, G/D359:AEP, UK)	IC841	8-759-604-89			G/D359:AEP2, UK)
			< RESISTOR	>				< RESISTOR	>	
49	R733	1-249-486-11	CARBON	39K 5%	1/4W	R733	1-249-436-11	CARBON	39K 5%	1/4W CEPT D359:AEP1)
		_				R733	1-249-437-11	CARBON	17K 5%	
			ES & PACKING					S & PACKING	,	
61		1-696-860-11	,		IS/D359:AE2, IT)		1-696-860-11			T/D359:AEP1, IT)

STR-A37/D309/D359

PS-LX52/LX52P

SERVICE MANUAL

REVISED

Photo: PS-LX52

US Model Canadian Model AEP Model E Model Australian Model PS-LX52 UK Model PS-LX52P

•PS-LX52P is the STEREO TURNTABLE SYSTEM in LBT-D109CD/LBT-A17CD/ LBT-D108CD/LBT-D159CD/LBT-D209CD/ LBT-D259CD/LBT-D309CD/LBT-D359CD.

SPECIFICATIONS

Return, reject

Turntable

Platter 30cm (12 in.) Motor DC servo motor Belt drive Drive system 331/3 rpm/45 rpm switchable Speed Wow and flutter 0.2% (WRMS) Signal-to-noise ratio Automatic System 60 dB (DIN-B)

Tonearm

Dynamically balanced Type Pivot-to-stylus length 203 mm (8 in.) 235 mm (91/4 in.) Overall arm length

Cartridge

Moving magnet type 20 Hz-20 kHz Type Frequency response Stylus

General

355 × 94 × 345 mm(w/h/d) Dimensions $(14 \times 3^3/_4 \times 13^5/_8 \text{ inches})$

Weight

Approx. 2.5 kg (5 lb 8 oz) Power requirement US, Canadian model: 120V AC, 60 Hz AEP, Italian, East European, CIS model: 220-230V AC, 50/60 Hz UK model: 12V DC

PX, E, Saudi Arabia, Singapore, Malaysia model: 110-120V/220-240V AC. adjustable with the voltage selector, 50/60 Hz

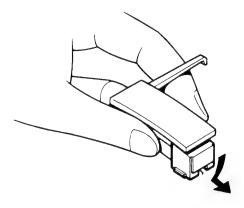
Australian model: 240V AC, 50 Hz Power consumption 4W (except UK model)

Accessory supplied Optional accessories

45-rpm adaptor (1) Replacement stylus ND-155G Stat spray XP-C10 Cleaner XP-C1, XP-C2

Design and specifications subject to change without notice.

REPLACING THE STYLUS



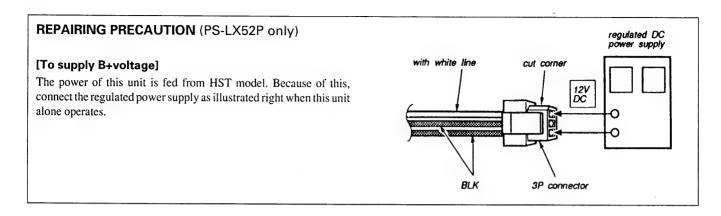
Replace the stylus after about 400 hours of use because using a worn stylus will damage records. An ND-155G replacement stylus is available at your Sony dealer. Be sure to turn the amplifier off before proceeding with re-

placement.

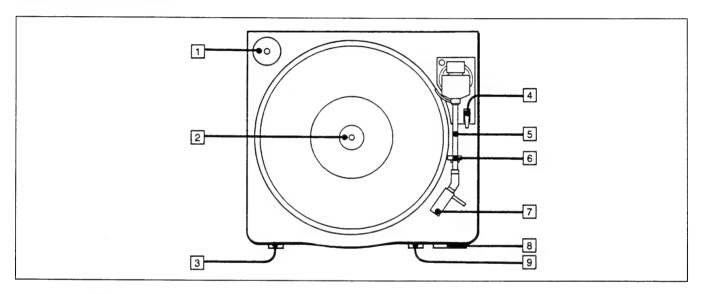
- 1. While holding the cartridge, detach the stylus assembly as illustrated.
- Insert the new stylus into the cartridge.



STEREO TURNTABLE SYSTEM SONY

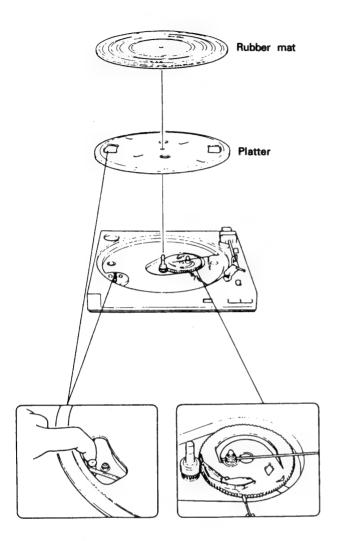


LOCATION OF CONTROLS



- 1 45-rpm adaptor
- 2 Center spindle
- 3 POWER switch (PS-LX52 only)
- 4 Cueing lever
- 5 Tonearm
- 6 Arm rest
- 7 Cartridge
- 8 REJECT button
- 9 Speed selector

TURNTABLE ASSEMBLY

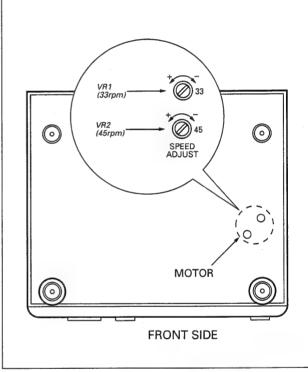


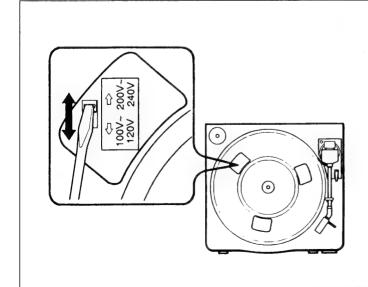
Hook the belt on the motor pulley. If the belt is removed from the platter, replace it with the glossy side outward.

Speed Adjustment

Note: Be sure to perform 45rpm adjustment before 33rpm.

- 1. Place a stroboscope board on the turntable sheet.
- Set the SPEED switch to 45.
 Press the START button.
 Adjust VR2 so that the striped pattern of stroboscope board is stationary.
- Set the SPEED switch to 33.
 Adjust VR1 in the same way.



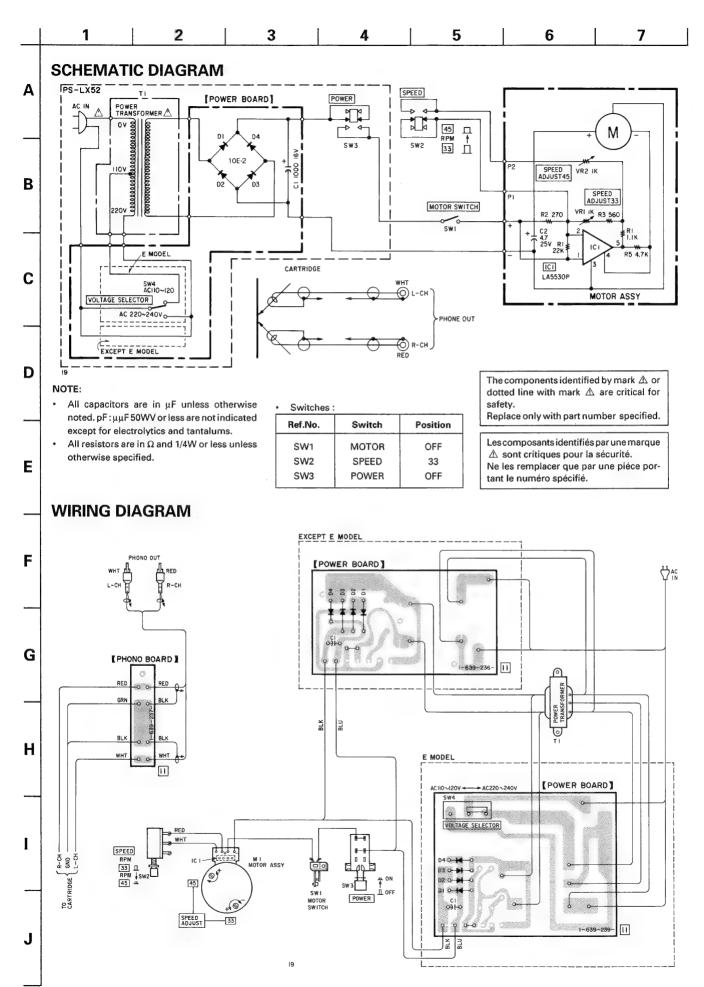


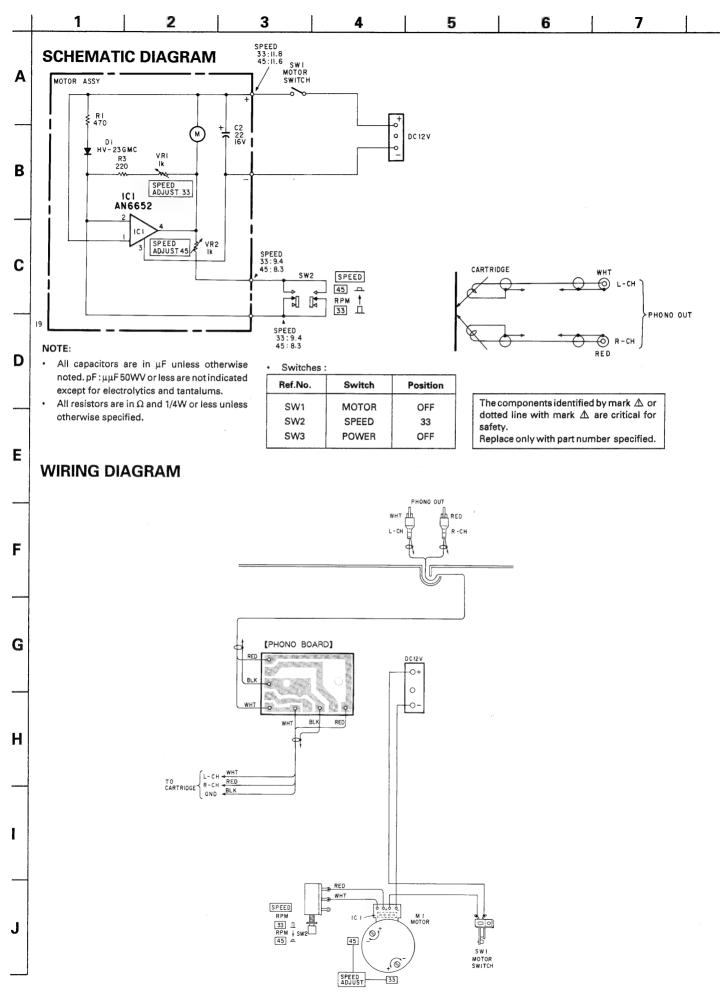
Setting the Voltage Selector

PS-LX52 (E, Saudi Arabia, PX, Singapore, Malaysia model)

For customers of the model equipped with the voltage selector

Check to confirm that the voltage selector is set to the local power line voltage. If not, set the voltage selector to the correct position before connecting the AC power cord to a wall outlet.





-5-

EXPLODED VIEW [PS-LX52]

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are in dicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Screw(# mark) list is given in the last of this parts list.

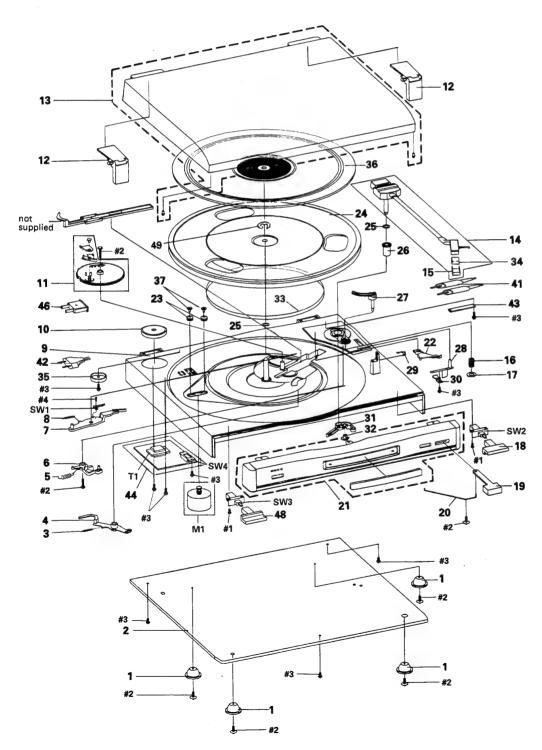
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

- PX, Saudi Arabia, Singapore and Malaysia models are identical to E model.
- Italian, EE, and CIS models are identical to AEP model
- AUS: Australian model
- EE: East European model



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-950-472-01	FOOT		28	4-950-440-01	LEVER-CUEING	
* 2	4-958-328-01	COVER-BOTTOM		29	4-950-439-01		
3	4-950-453-01	SPRING-REJECT		30	4-950-441-01	BRACKET-CUEING	
4	4-950-452-01	LEVER-REJECT		31	4-950-450-01	ARM-FEED	
5	4-950-455-01	SPRING-ELEVATOR		32	4-950-451-01	CAM-ADJUST	
6	4-950-454-01	ELEVATOR		33	4-950-434-01		
7	4-950-463-01	ARM-CONTROL		34	4-944-756-01	CARTRIDGE (AT-3600LAX)	
8	4-950-464-01	SPRING-CONTROL ARM		* 35	4-950-514-01	WASHER CODE	
* 9	4-950-431-01	CABINET-UPPER		36	A-4660-142-A	A RUBBER ASSY, SHEET	
10	4-950-467-01	ADAPTOR-45RPM		37	4-950-469-01	SCREW-SETTING MOTOR	
11	A-4660-140-A	A GEAR ASSY, RING		41	1-590-871-11	CORD, CONNECTION (3 CORE)	
12	4-950-432-01	HINGE		∆ 42	1-590-836-11	CORD, POWER (E)	
13	A-4660-138-A	A COVER ASSY, DUST		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-551-294-1	L CORD, POWER (AEP)	
14	A-4660-384-A	A ARM ASSY, TONE		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CORD, POWER (US, Canadian)	
15	4-944-756-01	STYLUS (ND-155G)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CORD, POWER (AUS)	
16	4-950-442-01	SPRING-ELEVATION		43		PHONE BOARD	
17	4-950-444-01	WASHER-C/S		44		L POWER BOARD (E)	
18	4-956-873-01	BUTTON-SPEED		44		L POWER BOARD (EXCEPT E)	
19	4-956-872-01	BUTTON-REJECT		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ADAPTER. AC (E)	
20	4-950-448-01	L LINK-REJECT		48		BUTTON POWER	
21	A-4660-361-A	A PANEL (G) ASSY, FRONT		49	4-953-059-01		
22	4-953-060-01	LEVER, SWITCH		M1	A-4660-141-A		
23	4-950-470-01	L CUSHION-MOTOR		SW1		SWITCH, LEAF	
24	4-950-433-03	1 PLATTER		SW2		SWITCH, PUSH (2 KEY) (SPEED)	
25	4-950-435-01	I SPACER		∆S₩3		SWITCH, PUSH (POWER)	
26	4-950-436-01	1 BUSHING-TONE ARM		∆S₩4		VOLTAGE SELECTOR (E)	
27	4-950-437-01	1 ARM-ELEVATION		<u></u> ∆71		TRANSFORMER, POWER	

ELECTRICAL PARTS LIST [PS-LX52]

NOTE:

The components identified by mark Δ or dotted line with mark A are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- · Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original
- · Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS

- PX, Saudi Arabia, Singapore and Malaysia models are identical to E model.
- Italian, EE, and CIS models are identical to AEP model.
- · AUS: Australian model • EE: East European model

 $MF: \mu F, PF: \mu \mu F$

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		POWER BOARD (E) POWER BOARD (EXCEPT E) ********* < CAPACITOR >		⚠SW4 ⚠T1 *****	1-450-508 ************** ACCESSO	-11 VOLTAGE SELECTOR (E) -11 TRANSFORMER, POWER ************************************	
C1	1-124-360-00	ELECT $1000 \mu\text{F}$ 20% < DIODE >	16V	* * *	4-947-533 4-956-071	-01 SNOW BOX (L) -01 SNOW BOX (R) -01 INDIVIDUAL CARTON -11 MANUAL, INSTRUCTION	
D1-4	8-719-200-02	DIODE 10E-2				Spanish, Portugu	uese) (AEP, Canadian)
******	******	**********	*****		3-756-211	-21 MANUAL, INSTRUCTION	(English)(US)
		MISCELLANEOUS ************				-41 MANUAL, INSTRUCTION	
41 <u></u>	1-590-836-1	1 CORD, CONNECTION (3 CORE) 1 CORD, POWER (E)				-51 MANUAL, INSTRUCTION (Spani	(English, French, ish, Chinese)(E, AUS)
∆ 42 ∆ 42 ∆ 42	1-696-382-1	l CORD, POWER (AEP) l CORD, POWER (US,Canadian) l CORD, POWER (AUS)		*****		-61 MANUAL, INSTRUCTION (Polis	sh, Russian) (EE, CIS)
43 <u>∧</u> 46		I PHONE BOARD LADAPTER, AC (E)				HARDWARE LIST	
SW1 SW2 △\SW3	1-572-746-1 1-572-744-1	1 SWITCH, LEAF 1 SWITCH, PUSH (2 KEY) (SPEED) 1 SWITCH, PUSH (POWER)		#1 #2 #3 #4	7-685-903- 7-685-546-	-21 SCREW +PTPWH 3X8 1	

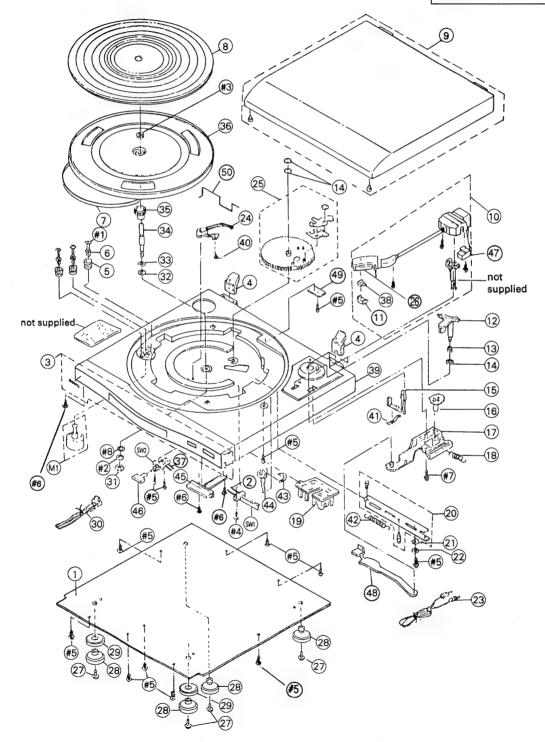
EXPLODED VIEW [PS-LX52P]

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Screw(# mark) list is given in the last of this

The components identified by mark Δ or dotted line with mark Δ are critical for safety.

Replace only with part number specified.



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-950-488-01	BOTTOM BOARD		6	4-947-504-01	COLLAR	
2	1-696-144-11	WIRE (45) RED		7	4-947-503-01	BELT	
3	A-4660-303-A	PANEL (G) ASSY, FRONT		8	A-4674-087-A	TURN TABLE MAT ASSY	
4	4-947-476-01	HINGE		9	A-4604-946-A	DUST COVER ASSY	
5	4-947-505-01	CUSHION, MOTOR					

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
10	A-4604-940-A	ARM ASSY, TONE		30	1-557-109-21	DC CORD	
11	4-948-095-01	COVER CARTRIDGE		31	4-947-510-01	NUT	
12	4-947-466-01	TONE ARM ELEVATOR		32	3-451-162-00	WASHER (56)	
13	4-947-467-01	SPRING (6)		33	3-701-445-21	WASHER	
14	4-947-514-01	4MM CS RING		34	4-947-498-01	STELL BALL	
15	4-947-468-01	LEVER, CUEING		35	4-947-497-01	GEAR	
16	4-947-470-01	ADJUST CAM		36	4-947-494-01	TURNTABLE PLATTER	
* 17	4-947-471-01	LINK, RETURN		37	1-696-143-11	WIRE (30) (WHT)	
18	4-947-472-01	SPRING (9-1)		38	4-951-290-01	STYLUS (CN234)	
19	4-956-998-01	BUTTON BASE		39	4-947-475-01	MAIN CABINET (G)	
20	A-4660-302-A	LEVER RETURN ASSY		40	4-947-496-01	SPRING (34)	
21	3-659-350-00	WASHER		* 41	4-947-477-01	CUEING (BASE)	
22	4-890-173-00	WASHER		42	4-947-485-01	SPRING (22)	
23	1-555-116-11	PHONO CORD		43	4-947-490-01	ARM CLIP	
				44	4-947-491-01	ARM REST	
24	4-947-495-01	WIPER REJECT					
25	A-4604-916-A	GEAR ASSY, SPUR		45	4-956-997-01	KNOB REJECT	
26	1-251-028-11	CARTRIDGE (MAIN)		46	4-956-996-01	KNOB SPEED	
27	4-950-497-01	FOOT SEAT		47	4-947-464-01	COUNTER WEIGHT	
28	4-950-490-01	PLASTIC STAND		* 48	4-947-487-01	RETURN LINK	
29	4-950-489-01	FOOT RING		49	1-644-410-11	P. C BOARD	
				50	4-948-101-01	SPRING (38)	

ELECTRICAL PARTS LIST [PS-LX52P]

NOTE:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board name.

 Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

- –XX, –X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.

used or	the set.		
Ref. No.	Part No.	Description	Remarks
23 30 * 49	1-555-116-11 1-557-109-21 1-644-410-11	DC CORD	
M1 SW1 SW2		MOTOR ASSY SWITCH (MOTOR) PUSH SWITCH (SPEED)	
******	********	**********	*****
		S & PACKING MATERIALS	
* * *		SNOW BOX (L) SNOW BOX (R) CARTON	

Ref. No.	Part No.	Description	Remarks
		HARDWARE LIST	
#1	7-621-773-87	SCREW +B 2.6X10	
#2	7-623-210-22	SW4, TYPE 2	
#3	7-624-110-04	STOP RING 6.0, TYPE-E	
#4	7-685-105-19	SCREW +P 2X8 TYPE 2 NON-SLIT	
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE 2 IT-3	
#6	7-685-646-79	SCREW +BVTP 3X8 TYPE 2 IT-3	
#7	7-685-645-79	SCREW +BVTP 3X6 TYPE 2 IT-3	
#8	7-688-005-01	W5, SMALL	

PS-LX52/LX52P

SONY. SERVICE MANUAL

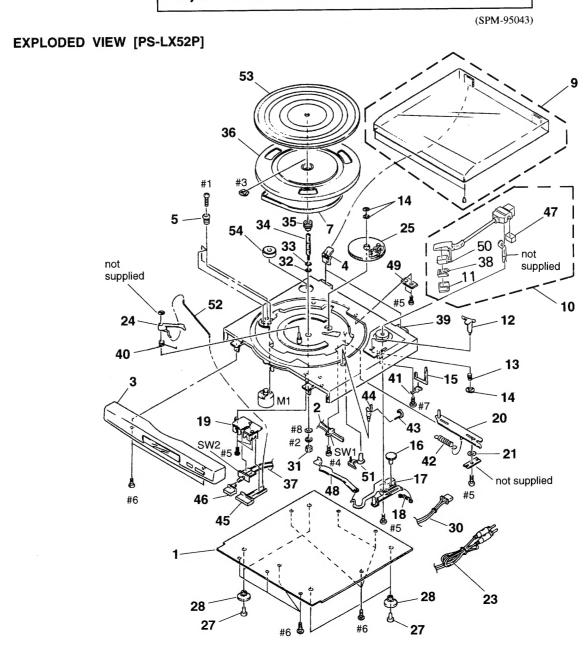
US Model Canadian Model AEP Model E Model Australian Model

CORRECTION-1

Correct your service manual as shown below.

UK Model

Subject: Correction of EXPLODED VIEW (PS-LX52P)



Note:

- Item marked "*" are not stocked since they are seldom required for routine services. Some selay should be anticipated when ordering these items.
- The mechanical oarts with no reference number in the exploded views are not supplied.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-950-488-01	BOTTOM BOARD		36	4-947-494-01	TURNTABLE PLATTER	
2	1-696-144-11	WIRE (45) (RED)		37	1-696-143-11	WIRE (30) (WHT)	
3	A-4660-303-A	FRONT PANEL ASSY		38	4-951-290-01	STYLUS (CN-234)	
4	4-947-476-01	HINGE		39	4-947-475-01	MAIN CABINET (G)	
5	4-947-505-01	CUSHION MOTOR		40	4-947-496-01	SPRING (34)	
7	4-947-503-01	BELT		41	4-947-477-01	CUEING (BASE)	
9	A-4604-946-A	DUST COVER ASSY		42	4-947-485-01	SPRING (22)	
10	A-4604-940-A	ARM ASSY, TONE		43	4-947-490-01	ARM CLIP	
11	4-948-095-01	COVER, CARTRIDGE		44	4-947-491-01	ARM REST	
12	4-947-466-01	TONE ARM ELEVATOR		45	4-956-997-01	KNOB REJECT	
13	4-947-467-01	SPRING (6)		46	4-956-996-01	KNOB SPEED	
14	4-947-514-01	4MM CS RING		47	4-947-464-01	COUNTER WEIGHT	
15	4-947-468-01	LEVER, CUEING		* 48	4-947-487-01	RETURN LINK	
16	4-947-470-01	ADJUST CAM		* 49	1-644-410-11	PC BOARD	
* 17	4-947-471-01	LINK, RETURN		50	1-251-028-11	CARTRIDGE (MAIN)	
18	4-947-472-01	SPRING (9-1)		51	4-957-000-01	PLASTIC RETURN	
19	4-956-998-01	BUTTON BASE		52	4-948-101-01	SPRING (38)	
20	A-4660-302-A	LEVER RETURN ASSY		53	A-4674-087-A	TURN TABLE MAT ASSY	
21	3-659-350-00	WASHER		54	3-701-806-00	ADAPTOR, 45	
23	1-555-116-11	CORD, PHONE		M1	A-4604-945-A	MOTOR ASSY	
24	4-947-495-01	WIPER REJECT .		SW1	1-570-666-11	SWITCH (LEAF)	
25	A-4604-916-A	GEAR ASSY, SPUR		SW2	1-571-089-11	PUSH SWITCH (SPEED)	
27	4-950-497-01	FOOT SEAT		#1	7-621-773-87	SCREW (64)	
28	4-950-490-01	PLASTIC STAND		#2	7-623-210-22	WASHER (57)	
30	1-557-109-21	CORD, DC		#3	7-624-110-04	6MM E RING	
31	4-947-510-01	NUT		#4	7-685-105-01	SCREW (59)	
32	3-451-162-00	WASHER (56)		#5	7-685-647-79	SCREW (58)	
33	3-701-445-21	WASHER		#6	7-685-646-79	SCREW (60)	
34	4 - 947 - 498 - 01	STELL BALL		#7	7-685-645-79	SCREW (68)	
35	4-947-497-01	GEAR		#8	7-688-005-01	WASHER (69)	